

# Rock Products

DEVOTED TO THE PRODUCTION  
OF ROCK AND ITS PRODUCTS

Vol. V. No. 15.

LOUISVILLE, KY., JULY 5, 1906.

STONE EDITION.

## VULCAN CHILLED SHOT

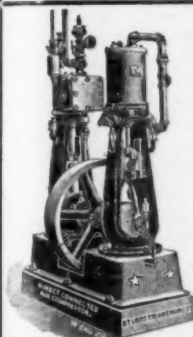
—FOR—  
Rapid Rubbing, Sawing,  
and Turning Granite,  
Marble, Slate, Onyx,  
Hard and Soft Stones

## VULCAN CHILLED SHOT

—MANUFACTURED BY—  
VULCAN GRIT WORKS - ZANESVILLE, OHIO  
C. H. JONES, QUINCY, MASS. New England Agent.

## VULCAN CHILLED SHOT

—IS—  
A Superior Article. Let  
Us Prove It. Write Us  
Now For Samples and  
Prices :: :: :: :: ::



## STAR AIR COMPRESSOR

Manufactured by  
St. Louis Steam  
Engine Co.  
15 S. Commercial St.  
ST. LOUIS, MO.

Write for catalogue  
especially for the retail  
Monument trade.

## Come Easy

### Inquiries

"ROCK PRODUCTS"  
Advertising Columns.

## MICHAEL COHEN,

St. James Building, Broadway and 26th St.,  
NEW YORK CITY.

For patching all kinds of Limestones,  
"DUGAN'S INVISIBLE PATCHER,"  
For repairing marble, granite, sandstones, etc.,  
"MEYER'S GERMAN CEMENT AND LIQUID."

Directions for using with every can.  
Stock constantly on hand. There are no better materials on the market. "Nash's Cubing Book."

IT'S UP TO YOU!

—this space.

## Wardwell Electric and Steam Stone Channellers

FOR OVER 40 YEARS "WARDWELL'S"  
HAVE STOOD FOR ECONOMICAL QUARRYING

GADDERS, STEAM DRILLS, BLOCK WAGONS, DERRICKS, WIRE ROPE,  
QUARRY EQUIPMENT OF ALL KINDS.

STEAM STONE CUTTER COMPANY, :: :: ::

RUTLAND, VERMONT.

ALL OR HALF

Will pay you dividends.

## PULSOMETER STEAM PUMPS

SEE ADV. PAGE 9

## WE NEED YOUR CO-OPERATION—

If you expect to do Business.

## Green River Stone

THE STONE THAT GETS WHITE.

CADEN STONE CO., OFFICE AND YARDS,  
411 to 425 E. Ohio St., Evansville, Ind.

Blocks Sawed, Planed and  
Cut Stone for Building and  
Monumental Purposes.  
Send Plans for Estimates in  
all kinds of Stone.

Let Us Help You.

"Rock Products" Advertisers don't Lie, ask them if it Pays.

*# Lincoln  
Quality  
is HONEST Quality*

*after  
15  
years*

One of our customers in Newark, New Jersey, says "We believe your Gang Saw is absolutely the best on the market." They have used our machinery fifteen years.

Stone Working Machinery  
for the "Missouri Family"  
--people that sit back and say  
--"Come on now--Show me!"

These are the stone-  
workers that buy our

## Standard Size Gang Saw

The saw that handles a block of stone 10' x 6' x 6'—we make bigger sizes, too, of course. With steel frame this gang weighs ten (short) tons—with timber frame, twelve. No similar tool built so heavy—none so

strong—and yet less power makes it cut more stone per day than any saw that costs so little.

Absolutely up to the most exacting modern requirements—a saw fit for even your plant. Want details now?

Let us quote you, anyway, on this or any machine to work stone.

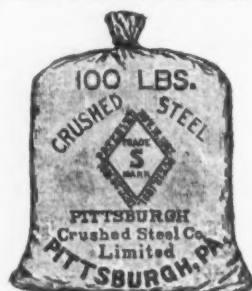
Ask for Catalog K—or state your needs.

**LINCOLN IRON WORKS**  
RUTLAND, VERMONT

### PITTSBURGH CRUSHED STEEL CO., Ltd.

PITTSBURGH, PA., U. S. A.  
Patentees and Sole Manufacturers of

**Diamond  
Crushed  
Steel**



**Diamond  
Steel  
Emery**

Angular in shape, made from high-grade Crucible Steel. Tough and lasting. Saws, Rubs, Grinds, Polishes Granite, Stone, Marble, Brick, etc. Does it cheaper and faster than any other Abrasive. Write for prices and samples.

Sole Agents for Celebrated "Samson" Chilled Shot.  
Samples and prices furnished on application.

**AIR** Compressors  
Stone Tools  
of every description.  
Catalogue Gratis.  
American Air Compressor Works, 26 Cortlandt Street,  
NEW YORK CITY.

Tell 'em you saw it in ROCK PRODUCTS

When a man buys a concrete mixer he expects it to **produce** a fair dividend on his investment. To produce that dividend there are certain requirements that go to make the total profitable. **Speed** of course is necessary, but **speed without a thoroughly mixed product** is worse than useless. The designers of the American Mixer always kept this point in mind and further, did **not** forget **durability**. As a result, the American Mixer is the **highest type of modern mixer**—a batch mixer.

Send for copies of letters we have received from our users.

Catalogue "I" tells the story.



Manufactured By  
**The International F. and Fireproofing Co.**  
Columbus, Ohio.



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Co.







# Rock Products

DEVOTED TO THE PRODUCTION  
OF ROCK AND ITS PRODUCTS

Vol. V. No. 15.

LOUISVILLE, KY., JULY 5, 1906.

STONE EDITION

## MT. AIRY GRANITE.

A Description of the Equipment and Operations of the Most Unique and Interesting Quarries in the Country.

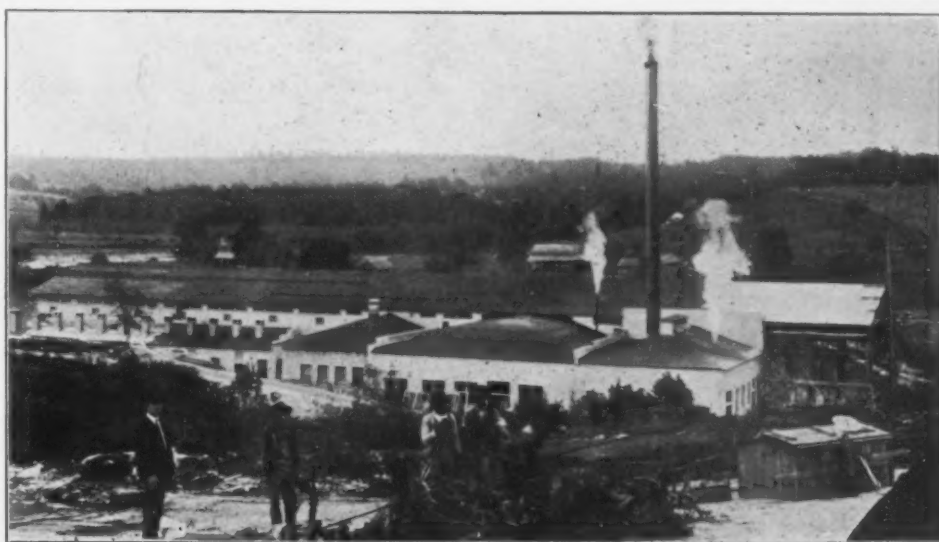
### UNLIMITED IN CAPACITY.

A representative of ROCK PRODUCTS visited the plant of the North Carolina Granite Corporation at Mt. Airy, N. C., a short time ago and was surprised to see the wide scope of the granite industry and a general review of this enterprise will probably prove interesting to the many readers of this paper.

To give an idea of the immensity of these operations one has to give their imagination full play, for nowhere in the United States can there be found just such another formation of granite as this. Mount Airy had long been famous and tourists had come miles to see what was known as "Table Rock."

The railway line reaching Mount Airy was built about the year 1889 and almost immediately after the completion of the railroad to the village, which at that time had the population of probably 1,000, a small company was organized to develop the granite industry and a branch road two miles in length was built from the main line into the quarries.

The equipment installed at that time was small, consisting of one or two derricks and several steam drills. The company was known as the Mount Airy Granite Company and after operating the plant three or four years in a small way,

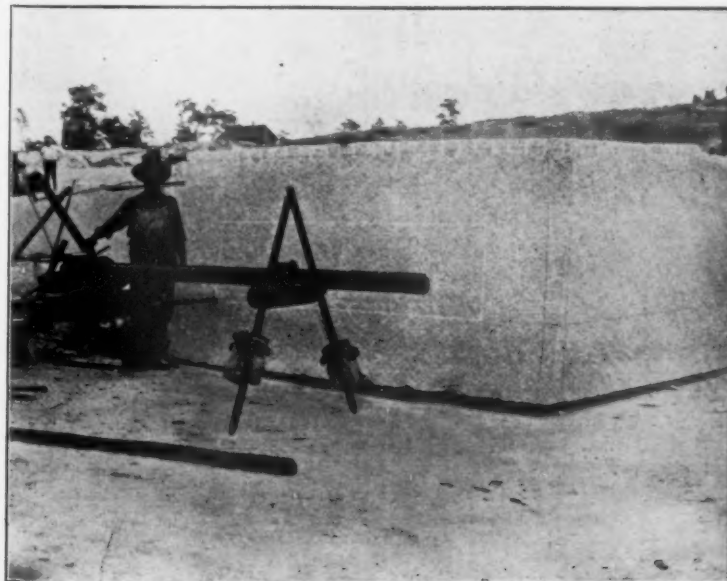


THE GREAT CUTTING SHED AND POWER HOUSE.

the granite company leased the property to Thomas Woodroffe. A gradual development then took place, covering a period of several years, after which the lease was renewed to Thomas Woodroffe & Sons and a still further development took place, the business increasing from an output of two or three hundred car-loads for the first year to an annual output of about fifteen hundred car-loads. After the death of Thomas

Woodroffe, Sr., the business was still conducted under the management of the sons and in the year 1904 they reorganized the enterprise and the business passed into the hands of The North Carolina Granite Corporation, the purpose of this reorganization being to thoroughly equip both the quarries and cutting plant in order to meet the growing demand which the high quality of the

(Continued on Page 24.)

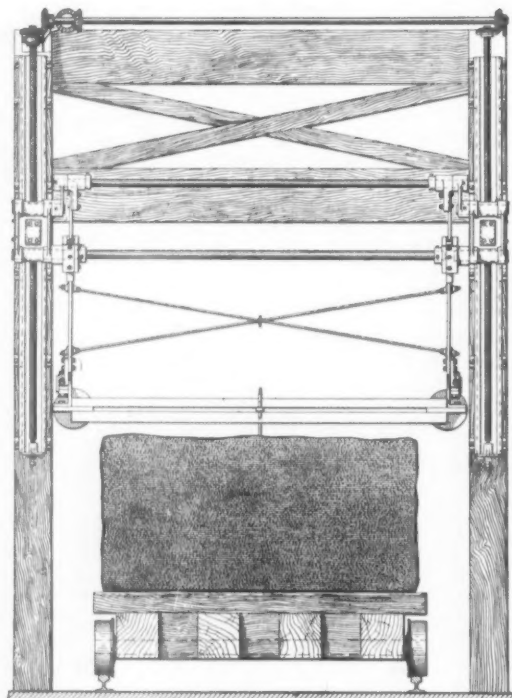


A 60-TON BLOCK FOR PEDESTAL.



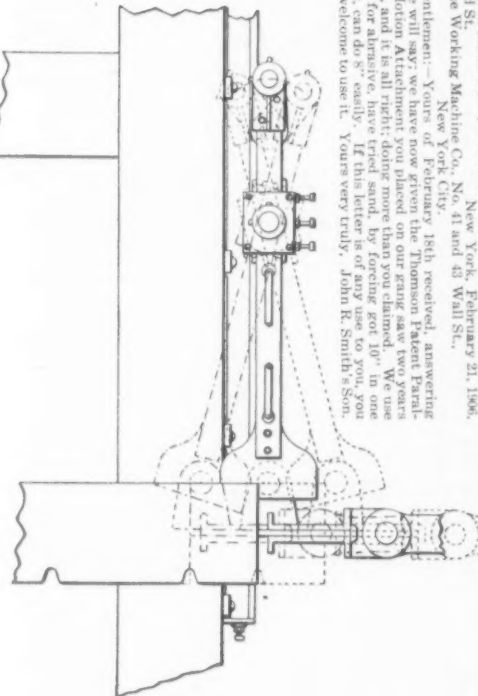
A 50-TON DIE.

# The Thomson Patent Parallel-Motion GANG and RIPS AW



These saws can be seen  
in operation at any of  
the following stone  
yards:

CARR & BALL, Harrison, N. J.  
J. J. SPURR & SON, Harrison, N. J.  
DURRIE & DAVIDSON,  
Harrison, N. J.  
A. J. HOERNER & SONS,  
Newark, N. J.  
B. A. & G. N. WILLIAMS,  
Washington, D. C.  
BARR, THAW & FRASER,  
Hoboken, N. J.  
DAVID G. MORRISON,  
L. I. City, N. Y.  
JOHN R. SMITH'S SONS,  
Ft. E, 103 7th St., New York City.  
JAMES MUIR, Springfield, Mass.  
KIRKPATRICK BROS.,  
Philadelphia, Pa.  
BUCK & GALLAGHER,  
Philadelphia, Pa.  
SOUTH SIDE STONE CO.,  
Bloomington, Ind.  
CONN. STEAM BROWNSTONE  
CO., Portland, Conn.  
EVERGREEN STEAM STONE  
WORKS, Evergreen, N. Y.  
J. H. HUTCHINSON,  
St. Henri, Canada  
SEATTLE CUT STONE CON-  
TRACTING CO., Seattle, Wash.



John R. Smith's Son, Cut Stone Contractor, Works, Foot East  
Fourth St., New York City.  
Stone Working Machine Co., No. 41 and 43 Wall St.,  
New York City.  
Gentlemen:—Yours of February 18th received, answering  
same will say: we have now given the Thomson Patent Par-  
allel Motion Attachment you placed on our gang saw two years  
trial, and it is all right doing more than you claimed. We use  
shot for abrasive, have tried sand, for forcing feet to you, you  
can see that it is all right. Yours very truly, John R. Smith's Son.

The Stone Working Machine Co.,  
41 and 43 Wall Street,  
New York City.

Gentlemen:—In reply to yours of  
recent date, would say, that we  
had such confidence in the Thom-  
son attachment for stone saws that  
we put in the first two manufac-  
tured. We have had them in op-  
eration now nearly five years, and are  
pleased to say our judgment has  
been more than justified. We are  
confident there is nothing in the  
market equal to them. The cost for  
repairs has been practically noth-  
ing, and they continue to give every  
satisfaction. You may use this  
letter if it will help you in your  
sales. Yours very truly,

CARR & BALL,  
111-121 Passaic Ave.  
Harrison, N. J., Feb. 20, 1906.

WORKS:  
Ave. A and 68th St., N. Y. City.  
Mill and Orchard Sts.,  
Astoria, L. I.  
South Capitol and First St.,  
Washington, D. C.  
Ball Ground, Georgia.  
New York, April 19, 1906.  
Mr. W. F. RANNEY,  
General Manager, Stone Working  
Machine Co.  
New York City.

Dear Sir:—In reply to the letter  
of inquiry you sent us with refer-  
ence to the gang of saws furnished  
us at our yard at South Capitol and  
1 Streets, Washington, D. C. will  
say, this gang is working very sat-  
isfactorily and is cutting about 60  
per cent more than our other gangs  
under similar conditions in South  
Dover Marble. Up to the present  
time we have had very few repairs  
and we think very well of your Ma-  
chine. Yours very truly,

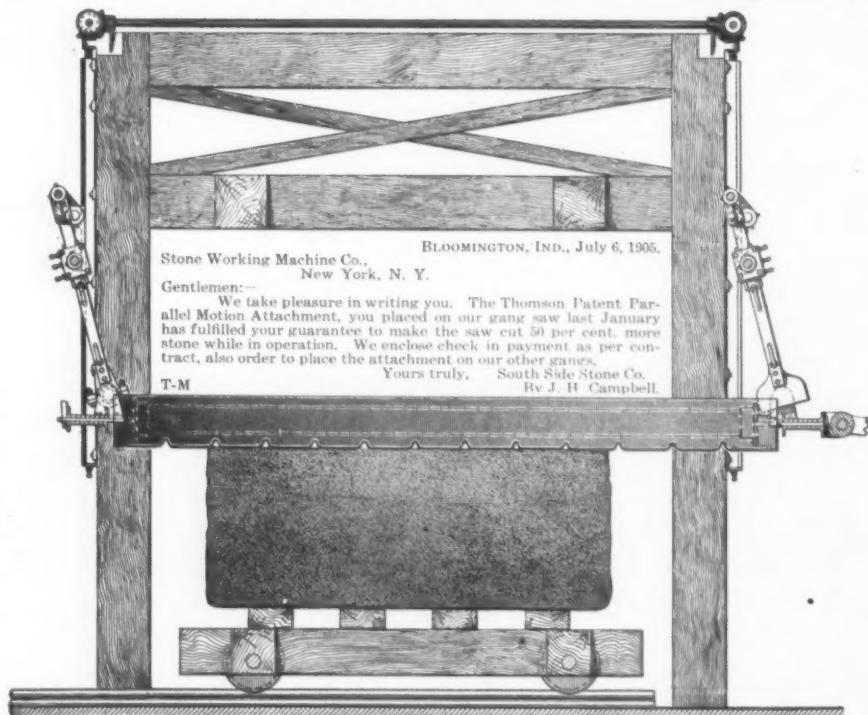
B. A. & G. N. WILLIAMS,  
5 and 7 E. 42nd St., N. Y.  
B. A. Williams, Pres.

Kirkpatrick Bros.,  
23d St. and Washington Ave.  
Philadelphia, February 2, 1906.  
Stone Working Machine Co.,  
41 and 43 Wall Street,  
New York City.

Gentlemen:—Yours of 1st inst.  
received. In answer would state  
that we have had a complete new  
saw of yours in use for two years.  
It has been working very satisfac-  
torily. We can saw more than twice  
what we could with the former  
gang saws, and require but little  
more power. Yours truly,

KIRKPATRICK BROS.

## Stone Working Machine Company



SOLE OWNER OF ALL PATENTS AND MANUFACTURING RIGHTS

**W. F. RANNEY, Manager,**

43 WALL ST., AND 43 EXCHANGE PL.,

New York City.

J. J. SPURR & SONS,  
Harrison, N. J. February 20, 1906.  
Stone Working Machine Co.,  
41 and 43 Wall Street,  
New York City.

Gentlemen:—Replying to yours  
of February 15th, regarding Thom-  
son Patent Parallel Motion At-  
tachment will say: we have been using  
the two placed on our saws for the  
past three years, and during that  
time they have received hard usage.  
Have had to make some repairs  
this winter, but we are perfectly  
satisfied and highly recommend  
them. Yours truly,

JOSEPH J. SPURR & SONS.

JAMES MUIR,  
Steam Stone Works,  
Ray Street Avenue,  
Springfield, Mass.  
Springfield, Mass., Mar. 28, 1906.  
Stone Working Machine Co.,  
41 and 43 Wall Street,  
New York City.

Gentlemen:—Replying to yours  
of recent date, I am pleased to write  
the Thomson Patent Parallel Mo-  
tion Stone saws you installed for  
me in August 1904, has proven it-  
self satisfactory in every way.  
Sawing more than double we ever  
sawed in every kind of stone, and  
I do not see that it requires any  
more power.

You ask particularly for report  
as to granite, I am doing a granite  
job now. Have visited a number  
of plants where granite is being  
sawed and I must say I am sawing  
more and doing better work than  
any mill that is sawing granite that  
I know of.

You are at liberty to bring or  
send any one to see this saw when  
I believe all the above statements  
will be proven to their entire sat-  
isfaction. Yours truly,

JAMES MUIR.

BUCK & GALLAGHER,  
Cut Stone Contractor,  
N. W. Cor. 9th and Wolf Streets,  
Philadelphia, Pa. Feb. 24, 1906.  
Mr. W. F. Ranney, Pres't  
Stone Working Machine Co.,  
Nos. 41 and 43 Wall Street,  
New York City.

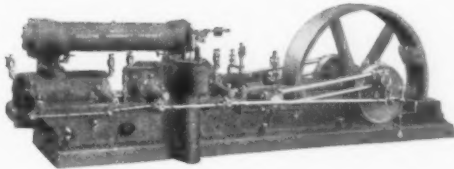
Dear Sir:—Replying to yours ask-  
ing if we can recommend the Thom-  
son Attachment for stone gang  
saws, will say: ours is giving entire  
satisfaction: running smoothly and  
doing excellent sawing—we believe  
doubly what old saw did. Can't  
see but what our engine runs it as  
well as it did before change. We  
are sawing in limestone with four  
or five blades for 1ft. 8in. to 2ft. 8  
in. per hour, (using shot or crushed  
steel of course.) Will show saw to  
any one who wishes to examine it.  
Yours truly,

BUCK & GALLAGHER.

Tell 'em you saw it in ROCK PRODUCTS.



## AIR COMPRESSORS for QUARRIES



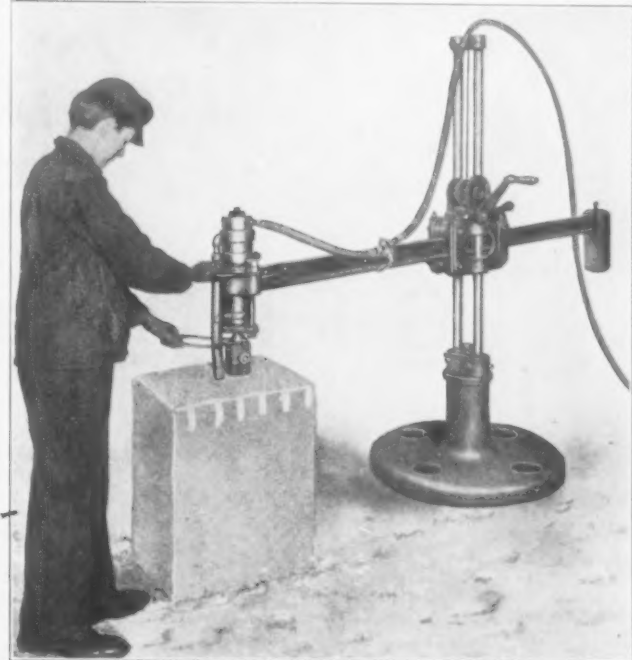
We illustrate the Sullivan Class W. H. 2 Straight Lime Two-Stage Compressor, Belt-driven. This machine is equipped with a device for unloading the compressor when no air is required. Send for Catalogue 53, describing all styles of Sullivan Air Compressors.

### Mine and Quarry

for May contains articles of interest to quarry men; send for a copy to any office of this Company.

## SULLIVAN MACHINERY CO.

Claremont, N. H. Pittsburgh RAILWAY EXCHANGE St. Louis Salt Lake  
New York Knoxville CHICAGO Denver El Paso



## The "Kotten" Junior Surfacer

Embodies Simplicity, Durability, Efficiency, Economy.

We also manufacture Cranes, Surfacers, Plug Drills, Baby Rock Drillers, Valve and Valveless Type Carving Tools.

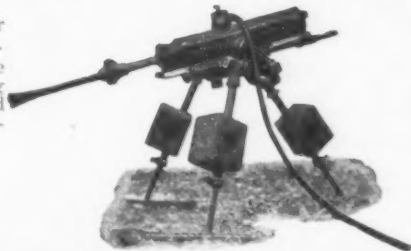
Send for full particulars to

**H. G. KOTTEN, Co., 120 Liberty St., NEW YORK CITY**

Foster & Hosler, Chicago, Ill. Central States Agents.  
Berger-Carter Co., San Francisco, Cal. Pacific States Agents

## Marvin Electric Drill

Simplest machines ever built for drilling rock. They have been in use 2100 days, averaging 15 hours per day and still giving entire satisfaction.



No electric motor.

No cams.

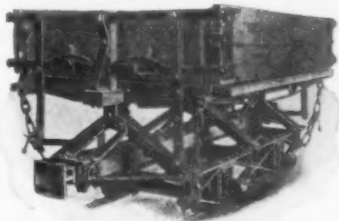
No machine shop.

Send for Catalog No. 4.

## Marvin Electric Drill Company.

BINGHAMTON N Y

## "THE OLIVER"



1 1/2 yard, 2 yard,  
4 yard and 6 yard

## DUMP CARS

Cars for all Purposes.

One and Two Way Side Dump and Rotary Dump Cars.

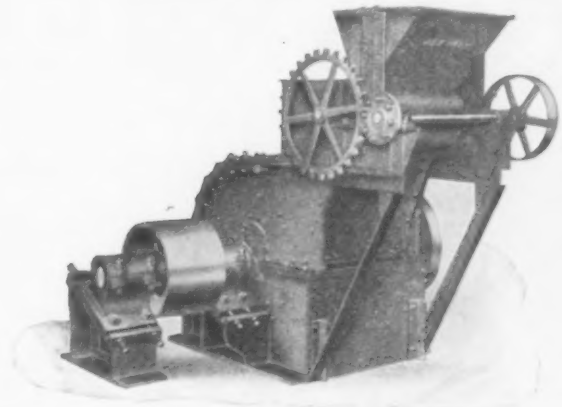
PATENTED RELEASING DOOR MECHANISM  
AUTOMATIC COUPLERS, AIR BRAKES

Heavy Castings and Machine Work.

## WM. J OLIVER MFG. CO., KNOXVILLE, TENNESSEE

## Jeffrey Crusher

With Automatic Feed Device



A Valuable Addition, Machine Heavily Constructed

**BUILT FOR WEAR.**

Send for catalogue No. 30 for details.

Elevating, Conveying, Screening, Drilling, Mining,  
Power Transmitting.

## The Jeffrey Manufacturing Company

COLUMBUS, OHIO U. S. A.

NEW YORK CHICAGO BOSTON ST. LOUIS DENVER

Tell 'em you saw it in ROCK PRODUCTS.





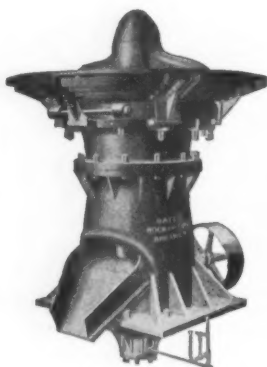
# Allis-Chalmers Co.

MILWAUKEE, WIS., U. S. A.

Canadian representatives, Allis-Chalmers-Bullock, Ltd., Montreal.



## Gates Rock and Ore Breakers



Style "K" Breaker

embody all that advanced engineering skill, wide experience, and unsurpassed manufacturing facilities represent in breaker construction.

### Its Record

is a continuous demonstration of its superiority over all other machines used for like purposes.

### Unequalled

for producing crushed stone suitable for Railway Ballast, Street Macadam, Concrete, or for the reduction of Cement Clinker, Slag, Phosphate Rock, etc.



Style "D" Breaker

## Bullock Electrical Apparatus

## TRACK CHANNELERS

DIRECT ACTING SINGLE GANG TYPE.



Marble Channeler in Concord Tennessee Quarry.

### Some Exclusive Features.

- A piston tail rod through the cylinder back head, avoiding broken rings, preventing cutting the bore, removing binding strains, and maintaining perfect alignment.
- A perfect and adjustable cushion at top and bottom of stroke, giving safety in working across seams, depressions, soft spots or broken material.
- Independent dust-proof reversible three-cylinder engines on vertical feed and track level, without friction clutches, chain drives or reversing gear.
- All controlling levers equally accessible from either end of the channeler.
- The roller guide dispensing with heavy crosshead, and increasing cutting power and capacity.



"H" 8 Channeler in Quarry at Bedford, Ind.

Air Compressors    Rock Drills    Stone Tools    Hammer Drills

## INGERSOLL-RAND CO.

Chicago, Ill.  
Cleveland, O.

Pittsburg, Pa.  
Philadelphia, Pa.

11 Broadway,  
NEW YORK.

St. Louis, Mo.  
Houghton, Mich.

El Paso, Tex.  
Boston, Mass.

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# NILES CRANES



One of the two 20-ton Niles Cranes, 75 ft. space, installed in yards of Milford Stone Co., Milford, Mass.

— Built by —

**NILES-BEMENT-POND CO.**

111 Broadway, NEW YORK.

Philadelphia, Boston, Chicago, Pittsburg, St. Louis, London.

## DU PONT EXPLOSIVES

**ATLAS POWDERS**

The Standard High Explosives for U. S. Government Engineers

**DU PONT COMPANY  
OFFICES**

NEW YORK	PHILADELPHIA	CHICAGO
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# CRANES ELECTRIC AND HAND POWER HOISTS

All Types and Sizes of Electric and Hand Power Cranes and Hoists.



For stone yards or stone mills, out door or inside service.

AC OR DC MOTORS

**THE CASE MFG. CO., Columbus, Ohio.**

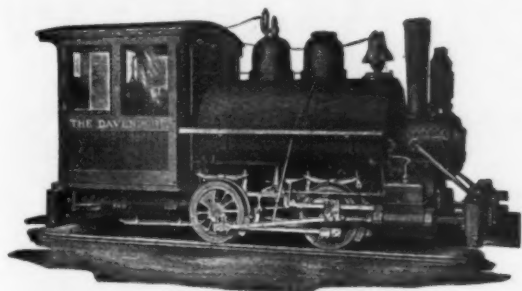
NEW YORK:  
McCALVE, RIMMER & CO.  
85 Liberty St.

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Farmers Bank Bldg.

CLEVELAND:  
C. E. STAMP & CO.  
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LILLEY & THURSTON,  
2210 Jackson St.



DO YOU HAVE CARS TO HAUL?  
**THE DAVENPORT LOCOMOTIVE  
WILL SAVE MONEY.**

Special Designs for Special Purposes. Any Size, Any Gauge, Any Weight.

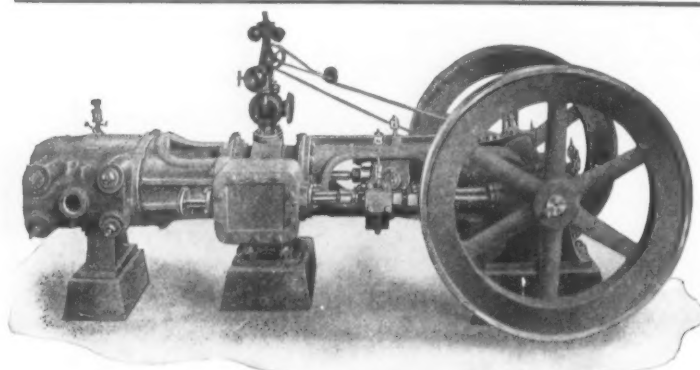
WRITE FOR PRICES AND PARTICULARS.

**DAVENPORT LOCOMOTIVE WORKS, DAVENPORT, IOWA.**

Tell 'em you saw it in ROCK PRODUCTS.



## A GOOD MECHANIC KNOWS WHY



### OUR FORK-FRAME STRAIGHT-LINE Air Compressors

Last longer and run smoother than others. Also why the removal of the bearings from the neighborhood of the steam cylinders improves their running qualities.

Air Compressors—Steam driven, Belt driven and direct connection. Electric Motors for every conceivable service.

Full particulars are given in pamphlet. Send for it.

### Clayton Air Compressor Works

114-118 Liberty St., NEW YORK

HIGHEST AWARD



GOLD MEDAL

Absolute Safety.

Load Controlled at Any Point.

Catalogue of Valuable Information Free.

### Weber Gas and Gasoline Engine Company

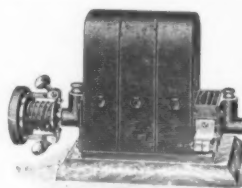
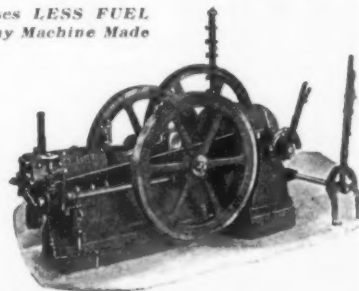
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KANSAS CITY, MO.

GAS ENGINEERS

A 20th Century Up-to-Date Hoist

That Uses LESS FUEL Than Any Machine Made



### Henricks Magneto

Fills Your Gas or Gasoline Engines without the Aid of Batteries

It is better and more durable than any Dynamo. Its governor regulates the speed regardless of speed of fly wheel. Its governor adjusts to imperfect fly wheels. Its governor insures a constant and uniform spark. The spark does not burn the contacts of the engine. All strains are removed from the bearings of Magneto.

Fully Guaranteed, Henricks Novelty Company.

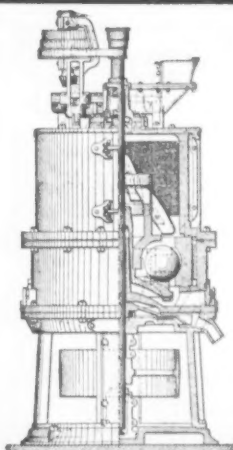
Agents Wanted. 130 S. Capital Ave., Indianapolis, Ind.

Stacks! Tanks! Kilns!

### AURORA BOILER WORKS

AURORA, ILLS.

Steel Plate Work.



## Fuller-Lehigh Pulverizer Mill

### The Best Pulverizing Mill Manufactured

Exhaustive tests in all departments, in competition with the most approved grinding machines in use, have demonstrated the superiority of our machine

#### OUR CLAIMS:

Greater Output

Better Fineness

Fewer Repairs

Dustless

Few extracts from letters received from users:

"I think you have an ideal mill and one which I believe will be recognized as the most economical and satisfactory machine on the market."

"We feel that after these mills are all installed, our Raw grinding end will be in excellent shape."

"This is certainly a very cheap grinding and I congratulate you on your being able to produce a mill that is equal to these figures."

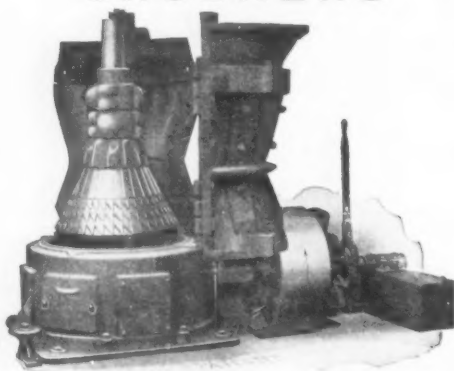
If interested, write us for further information

LEHIGH CAR, WHEEL & AXLE WORKS, CATASAUQUA, PA. U. S. A.

CRUSHERS

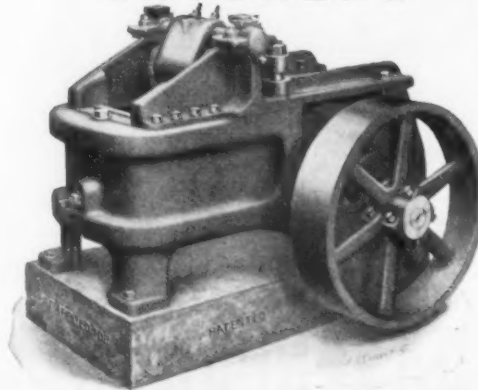
10 KINDS

CRUSHERS



STEEL ROCK BREAKERS.  
GYRATORY BREAKERS.  
COMPOUND BREAKERS.  
DODGE CRUSHERS.  
ROLL JAW CRUSHERS.  
ROTARY CRUSHERS.  
OPEN DOOR CRUSHERS.  
PORTABLE BREAKERS.  
SECTIONAL CRUSHERS.  
LABORATORY CRUSHERS.  
ETC.

Send for Catalogue.



STURTEVANT MILL COMPANY,

105 CLAYTON STREET, BOSTON, MASS

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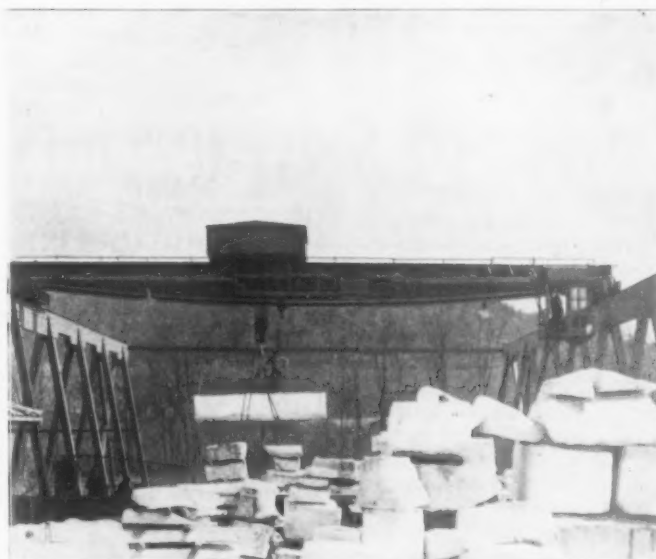
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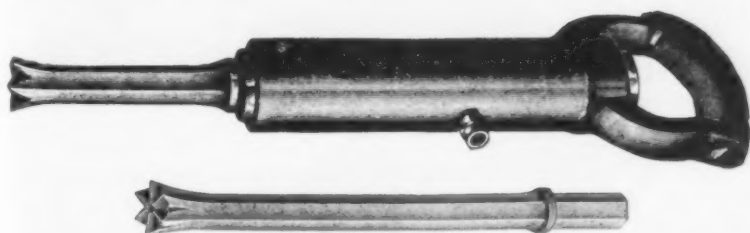
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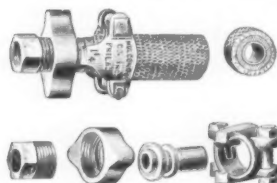
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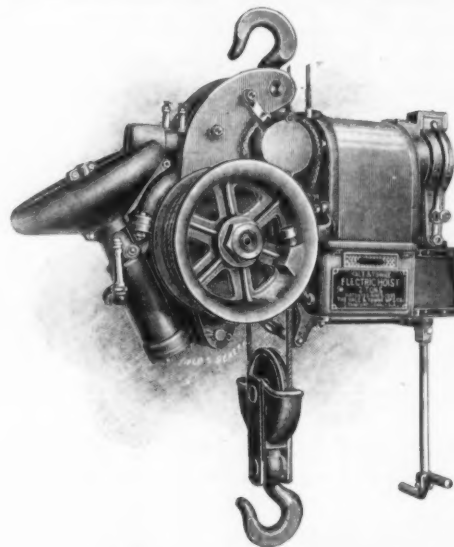
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LOUISVILLE, KY., JULY 5, 1906.

### Loyalty to the Local Architect.

In the small sized city where there is only business enough for one enterprising and studious architect the gentleman who occupies that position is somewhere near the most important man in the community. The tone and character of the whole town is in his hands for he models the buildings for the business district as well as for the residence portion, and it is remarkable that quite a number of the towns in the middle West have nearly all their buildings designed by one brain, that of the local architect. He takes a personal pride in his work, really claims the town for his own and frequently gives his best work at small cost for the sake of obtaining for the completion of his plan of beauty some missing link which he could not otherwise secure. The people of the community should be loyal to such a man and not take their large appropriation to some big city and hunt up a stranger who has not given his life work to the town and his best study to its artistic development. The builders of every community should realize that we do not build for ourselves alone but for the whole community, and respect the plan and ideals of the man who gives his life to the study of pleasing effects and symmetrical combinations for the various localities which go to make the town a handsome and pre-entable whole to the stranger within the gates, and incidentally the captain of industry comes along occasionally to make big investments which addound to the benefit of every property holder

represented. The architect is loyal to his town and each community should be loyal to its architect.

The restrictions with regard to the erection of monuments in some of the most beautiful cemeteries of the country are sometimes complained of by the monument man as preventing him from securing orders, for frequently his customer would erect a different monument from that which the regulations described and failing in being able to secure what he desires he refuses to do anything at all. This is not an objectional feature at all where the cemetery lot is purchased after the regulation is made, for in that case the purchaser of the lot usually signs an agreement that he will erect no monument upon the lot except such as are prescribed by the cemetery authorities. In older lots, however, where in times past there have been erected a number of monuments uniform in style and design it is often desirable and in good taste on the part of the lot owners to erect more monuments of exactly the same pattern.

There is a sentiment in the hearts of some people with regard to the removal of headstones erected by their ancestors which forbids them replacing the old work, while at the same time it would be clearly in bad taste to change the style and material entirely for all the graves of a later generation, and this is where the retail monument man is made to lose many a profitable order. The object of the cemetery regulation is clear enough and the position is really well taken, but it does not apply in such cases as that above mentioned, and this matter should be taken up and provided for.

The marble quarrymen of the Georgia district report a busy season in all the lines in which their product is used. There are more fine monuments being constructed of Georgia marble this year than ever before. While the requirements for dimension stone for structural work was never so great. The development of this material for the interior finish of elaborate public buildings, such as court houses and hotels as well as the modern office building has eclipsed even the fondest dream of those who first had faith enough in the proposition to open up the quarry and exploit this really beautiful stone. The completion of the Congressional Library at Washington and the Candler Building at Atlanta speak a great deal for Georgia marble, and the end is not yet, for its popularity increases as it becomes better known.

The granite quarrymen in all the districts where monumental and building stone is taken out as the principal source of profit usually makes up a large percentage of the refuse stock into granite pavers for the thoroughfares of our great cities. It is said that the demand for granite pavers this year has not only been beyond the expectation at the opening of the season but that the call is really greater than the possible supply.

A LARGE number of the buildings whose construction was begun with the opening of the season are now approaching such a condition as to be considering the roof proposition. The producers and handlers of slate for roofing purposes should now be getting busy with their announcement so that no party who is spending money for the completion of his building before cold weather will fail to consider their product. In these busy times any man's wares are liable to be overlooked if he does not repeatedly and continually call the attention of his prospective customers to the excellence and ease with which his goods can be used.

The air compressor and the rock drill have accomplished as much for the quarrymen as the magnetic needle did for the mariner or the tabulation of multiplication for the arithmetician. It has simply made easy what was before the impossible, and the end is not yet for the improvements of pneumatic tools, for every branch of the stone industry are still advancing apace. It is indeed interesting to talk to the old-time quarryman who recalls the day when blasting was the only means for loosening the stone (with nearly every shot wasting fully 70 per cent of the ledge broken off) and hear him relate vividly the actual comparison with modern quarry methods.

The problem of removing the debris in the fire zone of San Francisco is receiving the attention of some of the brightest engineers of the country. They will undoubtedly exert their best endeavors to accomplish this difficult test at the smallest cost and in the shortest time possible. When we take into consideration that the demolition of a single building like the courthouse of Chicago with every modern contrivance and appliance working to the utmost of capacity, consuming the full period of six months, we can better appreciate the task when the preparing of the ground for new construction is measured by acres and square miles.

The ever present question of transportation is the most interesting thing in all stone operations; in fact, it dictates and regulates by its cost the market value of every kind of stone, whether it be monumental stock, dimension stone cut ready for the building, or even the refuse of the quarry. The railroad lines have partially met this requirement by putting down heavier rails and building cars whose platforms are supported by steel I-beams which combine the factor of lightness with the greatest amount of rigidity, and with heavier trucks provided with broader bearings that eliminate the factor of friction to the minimum, and yet the accommodation is altogether inadequate for the requirements of the great stone industry which is growing more rapidly every season. In this single instance alone does it appear to the careful observer that the justly celebrated American genius has been found deficient and not abreast with the demands made upon it. It has been almost truthfully said that it only required a clearly stated deficiency of equipment in this country to call it forth instantly like the work of a magician. Have we not a rolling stock and motive power genius who can bring forth a revolution similar to what the air compressor and pneumatic tool inventors have done?

In all the manufacture of machinery, especially adapted for the stone trade, it is peculiar that none of the machinery builders have yet brought out a lathe for the turning of heavy columns and the fluting and finishing of them. While there are a number of lathes in many different localities in operation, upon investigation, we find that they were originally built for iron manufacturing concerns and have been remodeled to meet the requirements of the stone column manufacturer. The polished granite column is almost as difficult a proposition now as it ever was and the same old rubbing process by hand is still resorted to. The polisher for plane surfaces is working wonders, not only in the large factories but even in the small monumental shops. Every other important operation in the manufacture of stone is well taken care of, indeed in almost every case there is a choice between several good machines while this important factor, the circular column, either tool-ed or polished, seems to be neglected by those who have so efficiently taken care of the other branches.



## SAN FRANCISCO LESSONS.

### Detailed Account of Results of the Great Fire Upon All Kinds of Building Stones.

SAN FRANCISCO, CAL., June 22.—San Francisco builders, quarrymen and handlers of stone, are keenly alive to the lessons to be learned from the San Francisco fire. This was the supreme fire test—a fire without water. In former fires there has usually been a question as to how much of the scaling or chipping of stone fronts, columns and trimming, was due to the heat alone, and how much to the throwing of water on superheated stone. The relative positions of various stones, as regards their fire resisting qualities, was not changed by the burning of San Francisco, but a good deal is to be learned about construction, as it bears on the building stone question, from a study of the behavior of the different stones under varying circumstances.

As a general thing, all varieties of stone suffered from actual and continuous contact with flames, especially when a draught was furnished.

Apparently in many of the tall buildings provided with central courts or light wells, these openings acted as chimneys which were fed by windows, doors, etc., thus creating a powerful draught doing immense damage to interiors, but in a measure saving the stone exterior. In some cases elevator shafts played the same part.

Granite of various grades was extensively used in fronts and for ornamental purposes throughout the business section of San Francisco, and there are many examples which show this stone to have passed through the fire with little injury,



HONG KONG AND SHANGHAI BANK VENEERED WITH CHINESE GRANITE FOUR INCHES THICK.

and many other examples which show a practical destruction of granite, even in buildings which themselves are not beyond repair. The United States Post Office Building, and the Fairmont Hotel are perhaps the best examples of the durability of granite under trial by fire. In these the fire damage is shown only in isolated spots.

One of the most interesting cases of the durability of granite is furnished by the building occupied before the fire by the Hongkong & Shanghai Bank, at the corner of California and Montgomery streets. This was a three story structure erected for Wells, Fargo & Co., in the early sixties. The exterior walls are a combination of brick and Chinese granite, there being a layer of four inches of granite on the outside. This stone was quarried and dressed in China and imported ready for erection. In the late fire the roof, floors and partitions went to pieces, but



CONDITION OF THE HOBART BUILDING.



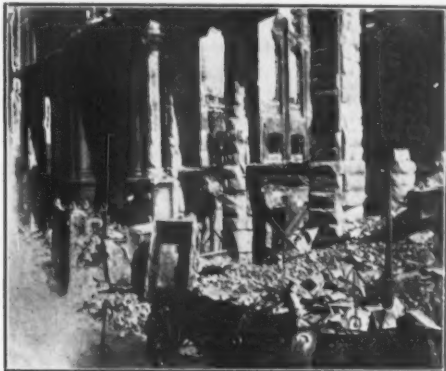
MUTUAL LIFE INSURANCE BUILDING, GRANITE WALLS UNINJURED.

the injury to the granite is confined principally to a few small chips on the lintels of a few of the windows, and shown in illustration No. 6. Since the fire the building has been occupied by the San Francisco Savings Union.

The Mutual Life Insurance Building at the corner of Sansome and California streets, which has a granite front extending to the top of the second floor, the interior of which was swept by fire and badly damaged, shows no damage to the granite work, except on the California street side, where it was subjected to an unusually hot fire from the adjoining buildings. Here the granite work about the windows and the basement doors, as well as the large pilaster on the corner, is badly scaled. Illustration No. 1. shows this building after the lower floors had been temporarily repaired and reoccupied.

One of the most notable contrasts in the effect of fire on granite is shown in the Hobart Building on Market street. This is a five story steel frame building with heavy brick walls, faced with granite. It has a substantial concrete foundation, concrete floors, metal ceilings, tile partitions and concrete coverings on steel columns. The front of the main floor was of granite and glass. The feature of this front consisted of large polished granite columns, backed by square shafts of the same material. The shaft and the column have a common base and a common capital. The entire building was divided vertically into two parts by a heavy brick wall. The building passed through the earthquake with little or no damage, but it was badly wrecked by the fire. While the upper floors are in fairly good condition, all of the first floor arches in the eastern section are out and the first floor ceiling will have to come down. In the lower stories all the tiling is down, and in the upper stories the tiling is loose. The concrete coverings on the steel columns in this section are off and both columns and beams are badly damaged. In the western section the first floor columns and beams are all down and the second floor is partly out, the upper floors being in about the same condition as in the eastern section.

Apparently the fires in the two sections were



SAN FRANCISCO STOCK EXCHANGE.

distinct, one in the western section, the ground floor of which was occupied by a sporting goods store, was much fiercer than the one in the western section, which was occupied on the ground floor by the Postal Telegraph Company. In the eastern section the granite columns and the marble shafts behind them are chipped and splintered beyond recognition, while the similar columns and shafts in the western section are practically undamaged. This contrast is shown clearly in illustration No. 2. The two damaged columns were exact duplicates of the undamaged column at the right of the illustration. The granite work supported by the columns shows a similar distinction. In the western portion shown in the left of the illustration, the granite work is ruined, while in the eastern section the granite is not only intact, but the telegraph company's sign is still in fairly good shape.

The San Francisco Stock Exchange Building, at 331 Pine street, was one of the representative buildings of massive construction erected during the late seventies. It was four stories and a basement high. The walls which are 48 in. in thickness on the first floor, were intended to support four additional stories. The outer portion of the walls was of granite of fine quality, the inner six inches or more being of brick. But a small amount of steel was used in the building, and this accounts for the destruction of the greater portion of the side walls, together with the roof partitions and floors. The entire front wall remains standing. The granite pillars at the corner and between the windows are badly scaled in places, as is shown in illustration No. 3. Of the granite columns

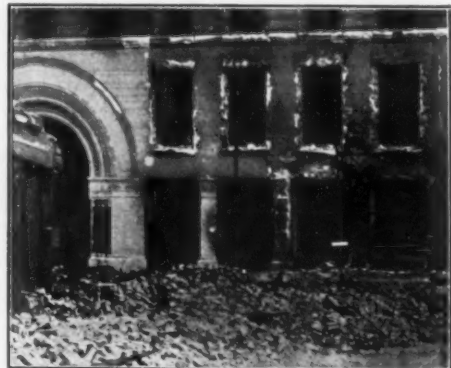


SAN FRANCISCO SAVINGS UNION.

which flank each side of the entrance only one is damaged to any great extent.

The building of the San Francisco Savings Union, at 532 California street, was a five story building with brick inside walls and granite outside walls. It had a granite front with marble columns. Above the second floor the front was largely composed of buff brick. The upper floors were demolished and the lower floor was practically ruined by fire. Illustration No. 4. shows the granite intact, one marble column gone, one practically ruined and the two other columns but little injured.

The Mutual Savings Bank Building on Market and Geary streets is an interesting example of fire damage to stone work. The fire, which swept the interior on every floor, did not generate sufficient heat to damage the stone work. The building was also secure against the flames of the small structures, which burned on two sides of it and against the heat coming across Market street. This street is 100 feet wide and this distance proved sufficient to protect the sandstone front from serious injury. On the Geary street side, however, the narrowness of the street proved destructive. The buildings across Geary street made a hot fire and the Geary street front of the bank building flaked badly on a large



THE MILLS BUILDING, LOWER PART OF MARBLE.

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area above the third floor. The four-inch sandstone facing crumbled away completely in a number of places. The fire resisting qualities of California red sandstone were not given so definite a test as the other stones. In the Chronicle Building, an eleven story structure, at the corner of Market and Kearny Streets, the two lower stories are of red sandstone. This came through the fire almost without injury, but while the building burned fiercely on the inside, the partitions and a large portion of the floors being ruined, it was not subjected to any fierce heat from the outside.

The Pacific Mutual Life Building at the corner of Sacramento and Montgomery streets, had red sandstone fronts on the lower stories. This building was structurally of cheap construction and was demolished by the fire. The sandstone arches and pillars on the lower fronts are considerably damaged though not so greatly damaged as might have been expected from the condition of the remainder of the building.

As was to be expected, marble suffered badly in the recent fire. The handsome marble interiors of such buildings as the Crocker Building on Market and Post streets and the Mills Building on Bush and Montgomery streets are badly damaged, though the injury is not really so great as appears at first glance. A careful inspection of the interior of the Mills Building shows that probably seventy-five per cent of the yellow Inyo marble, which is used to face the interior court is uninjured. In exteriors the condition of the marble which passed through the fire differs greatly according to its position. The best example of the effect of fire on marble is shown in



ONE OF THE MARBLE COLUMNS OF THE MILLS BUILDING.

the Mills building, which has a yellow marble interior and a white marble exterior extending to the top of the second floor on the Bush and Montgomery street fronts. It is an eleven story building, the ground floor being occupied by banks, brokers, etc., and the upper floors chiefly by lawyers' offices, a law library, etc. It is built about a central court, roofed over with glass above the second floor. The exterior walls above the marble are of buff pressed brick. The building was fireproofed throughout with terra cotta. It made a very hot nre, the flames from the interior sweeping out through some of the windows and doors and up through the large central court. The main entrance of the building, consisting of an ornate arch reaching to the second story, apparently served as an intake to feed the flames which swept out at the top of the central court, as it is practically undamaged by heat. Most of the doors and windows show indisputable evidence of having acted as vents rather than intakes. Illustration No. 6, shows a portion of the marble front extending from the main entrance on the Montgomery street side to the corner at Bush and Montgomery. This shows the white marble pilasters on the ground floor and the edges of all the windows on the second floor badly scaled by the flames. The marble cornice above the second floor is also chipped off. The buff pressed brick above is shown to have been but little damaged. The blackening of the marble above the openings of the windows indicates the outward course of the flames. The entrance arch, including a cluster of polished yellow marble columns at the foot, is uninjured. The small illustration, No. 7, shows a portion of the second pilaster from the right of the entrance enlarged.

## Architertural

### New Canadian Architectural Association.

A call is shortly to be made for the formation of an Association of Architects and Structural Engineers in western Canada, says an Enchange. It has long been felt necessary that such an association should be formed, and we understand that a large number of names have already been handed in of those desirous of becoming charter members.

The proposed name of the Association is the Western Canada Architectural Association.

Those wishing to be placed on the charter list should send in their names to the secretary pro-tem: Western Canada Architectural Association, P. O. Box 347, Winnipeg, Man., or to P. O. Box 189, Regina, Sask.

### The Best Building Code.

The city of Cleveland, Ohio, is completing a building code which for practical purposes is superior to anything that has been developed up to the present time. The building regulations of American cities generally have been lame affairs. Those of western cities, Chicago included, have been especially so. Building departments, too, have at times been even worse than the regulations they were supposed to supply. Cleveland, however, has actually adopted in part, and is carefully completing a building code which is comprehensive in scope and, to an unusual degree, scientific in character.

Its four divisions comprise building inspection, structural sanitation, electrical construction and boilers and smoke apparatus. Each of these divisions is or is to be in charge of a specialist. In the detailed provisions, too, the aim has been to formulate and apply general principles rather than to prescribe mere arbitrary requirements.

The work of framing this code was initiated mainly at the instance of the various building interests of Cleveland, and has been in charge of a building code commissioner. It has already been in progress three years,—a fact, indicating the thoroughness of the undertaking. The commissioner has worked in conjunction with a council committee but he has also secured the active co-operation of a large number of trade and semi-public organizations. His method has been to get each special interest concerned to put into precise form its own peculiar branch of the subject.

To many Clevelanders it is a cause of surprise that the completed portions of this code—perhaps two-thirds of the whole, as projected—have despite political menaces and selfish threats, been actually adopted. Providence, however, has repeatedly intervened in aid of the reform. Just about the time when a test vote was approaching on the first installment of this code, the Iroquois horror occurred in Chicago, and the commissioner pointed with satisfaction to his proposed theatre regulations. A little later came the Baltimore fire with its lessons about construction. The Toronto disaster added its lesson soon after. Then Mayor Johnson got stuck one afternoon between the floors of a New York elevator and could not get out for a considerable time, whereupon he returned to Cleveland quite ready for improved protective rules on elevator construction. Finally, just as defeat threatened another portion of the measure in the council, a local skating rink collapsed, and pointed an opportune moral.

The Cleveland building code undoubtedly represents the best set of building regulations thus far adopted by any American city. If building in Cleveland is not kept up to the standard hereafter, the fault will at least lie with the Mayor's appointees, charged with enforcing that code.—Chicago Tribune.

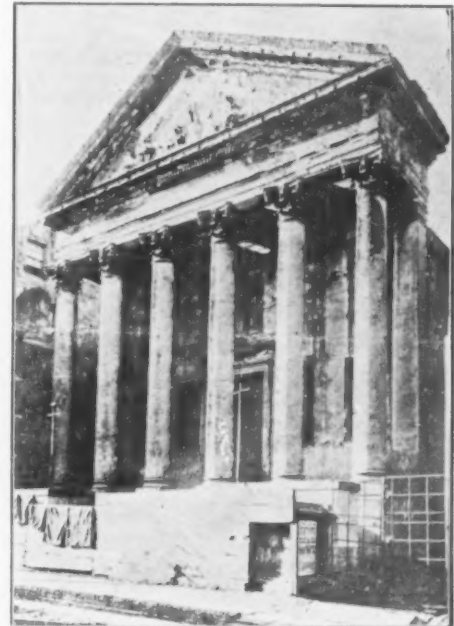
## ARCHITECTURE IN NEW ORLEANS.

Imposing Structure Soon to Be Erected  
There—Some Architectural Notes  
About the City's Historical  
Buildings.

### A PLEA FOR THEIR PRESERVATION.

NEW ORLEANS, LA., June 30.—The hot summer days bring no rest for the busy architects. Every office in town is driven with work. Sometimes it is a pretentious building that will cost away up into the thousands and the hundreds of thousands, and again it is only a modest cottage which the builder wants on artistic lines and is willing to pay for it. Possibly in no other city is there such a number of architects that are artists as in New Orleans. Almost any woodworker may draw the plans for the throwing together of building material to be habitable, but only a few are born with artistic souls that know how to get harmony and beauty out of lines and angles and to properly blend colors and tones so as to produce the best effects.

They are here in great numbers, or at least in unusual numbers. But for all that architects from other parts of the country come in and capture rich prizes in designs for the public buildings.



THE OLD CITIZENS' BANK, NEW ORLEANS, LA.

The civil court house that is to occupy an entire square, bounded by Royal and Chartres and Conti and St. Louis Streets, was designed by Atlanta artists. The court house commission offered prizes for the best designs, and over 100 contestants entered the field. The result was as follows: The firm of Frederic W. Brown, A. Ten Eyck Brown and P. Thornton Marye, architects, of Atlanta and Mobile, first prize, \$5,000.00.

Edward Pearce Casey and Arthur Dillon, of Philadelphia, second prize, \$2,500.00.

Zantinger & Borie, Philadelphia, third prize, \$1,000.00.

The estimated cost is \$800,000.00. The style is French Renaissance and will be four stories high. It will be of fireproof construction, either of steel or reinforced concrete. The exterior is to be of Indiana oolitic limestone with the base course of granite. The contracts have not yet been let.

The building of the new court house marks a new epoch in the down town architecture of New Orleans. It is in the very heart of the old quarter where every cobble stone that makes riding unbearable has been worn smooth by the wheels of history. The carriages that drew Henry Clay and Jackson and Lafayette passed over these streets and their voices have echoed through the corridors and dome of the old St. Louis hotel or Hotel Royal, that is just across St. Louis Street.

Diagonally across the corner of Chartres and St. Louis Streets stands the house that was built by



Napoleon, but who died before he could be brought here to occupy it. Mayor Girod and a number of other admirers of the great general fitted up a yacht, the fastest sailing one of the time and built this three story house of brick and cement, and had it exquisitely frescoed and furnished, and on the day the expedition was to set out for St. Helena the word came that the hero was dead. The house, with its quaint brass knocker and wrought iron hinges and fastenings is yet occupied, but no longer by people of wealth and culture, but as a cheap lodging house and bar room. Not far away was the old Citizens Bank, which has been torn away in the past decade.

Moise H. Goldstein, in *Architecture*, makes a strong plea for the preservation of the old historic buildings. He says in part:

"Throughout the history of the three epochs, there is one fact very prominent, the city was not rich, and here is the keynote of the architectural beauty and character. With wealth there would have been a profusion of architectural styles, a mass of rich, meaningless ornamentation and tinsel, and a shiftless architecture, but, in a condition of poverty, the artists took the material at hand and used it to the best advantage, but put their mind and soul into the work of making something better out of that which they had done well. And, by discovering the essence of art, the building of noble ideals from the right basic principles, they left noble works.

The city is rich in possession of these rare heirlooms of its early history and should not be careless with the fate of its treasure. New York and Boston, as well as London and Paris, have societies for the protection of ancient buildings, which are the careful guardians of the old relics, and whose creed is: 'Renewal of old work should never be resorted to unless repair is impossible.' And New Orleans, in justice to itself and posterity, should proceed to follow their noble example. There are many reasons why the good examples of old architecture in the city should be preserved, but, excluding the mere interest to be found in old edifices, these should be protected zealously for the sake of their peculiar beauty, hallowed by history and legend. The architecture of old New Orleans is very seldom imposing, but, in its sincerity, it has attained beauty, and likewise has expressed the spirit of the age."

McKenzie & Goldstein have moved to the New Orleans National Bank building, 606 Common Street, where they will have much larger rooms which was necessary to accommodate their increasing business. The rooms are being fitted up in mission effects. One room will be set aside for architectural exhibits where sketches of architectural work may be shown.

#### The First English-Speaking Church to Be Restored.

RICHMOND, VA., June 20.—The discovery of the old foundations of the church at Jamestown, their character, the need of protection to keep them from crumbling away, the erection of a temporary frame structure over them, the generous offer of the National Society of Colonial Dames to erect an attractive building and its acceptance by the A. P. V. A., are so well known that it is needless to go over the matter again.

The first plans for the Dames Memorial building were a gift to that society from Mr. S. H. Yonge, of this city, and the general idea will be adhered to. But the plans from which the building will now be erected, have been drawn by Mr. Edmund M. Wheelwright, of Boston, the distinguished architect, who is building the new Museum of Fine Arts for that city. Mr. Wheelwright also gives his services. He prepared himself by visits to Jamestown and the old Smithfield Church, and by a careful study of each.

The new building will be of Gothic type, like the old, but modified by renaissance feeling. It will, of course, have buttresses and an open timber roof. Every detail has been most carefully studied, even down to the wrought nails and leaded window frames dug up in the church, and fine examples of hinges found in other buildings at Jamestown. Like the tower and the buttresses of the old church, the brick of the new building will be laid in English bond, and bricks will be especially made to obtain the desired size and color. The great last window, which is copied from that at Smithfield, will be the thing of greatest interest.

The new building will be about 56 x 27 feet. The foundations of the 1617 church, the two tombs, and the old tiled chancel will be raised off from the body of the church and will remain

in exactly the same condition as at present. The main part of the interior, which is now only bare earth, will be covered by a flooring of terra-cotta tiles.

The Colonial Dames have engaged Mr. William P. Marshall, of this city, to superintend the construction of the building. The Dames will turn over the memorial building to the A. P. V. A. without reservation or restriction. The association has, as yet, taken no action in regard to the use of the new building, but it is the wish of the Dames, as well, it is believed, as of all the members of the A. P. V. A., that the building shall be reserved for religious services, and that, entirely under the control of the association, it may be open to any and all denominations, which may at any time wish to hold services there.

#### A Luxurious Apartment House.

NEW YORK, N. Y., June 23.—William Waldorf Astor will shortly add to his immense holdings of fine buildings in New York City, by erecting an apartment house. This building, which will be twelve stories in height and occupy the block bounded by Broadway, West End Avenue, 78th and 79th streets. The structure will cost \$2,000,000.00, which, added to the value of the land, will make the total cost of the property \$3,000,000.00. The plans for this splendid building were recently filed with the bureau of buildings by Mr. Astor through his architects, Clinton & Russell.

The building will be known as the Apthorpe Apartments and will contain 110 apartments of from six to fourteen rooms each. It will have a frontage of 204.4 feet in Broadway and West End Avenue and 248 feet on the two streets. The architecture of the building will follow the Italian renaissance and be executed in limestone and stone-colored brick. In the interior will be a court 96 x 134 feet in size, the center of which will be parked and planted with grass and flowers. This court will be reached by driveways from the Broadway and West End Avenue fronts. At each corner of this court entrances to the apartments will be provided. Thanks to this immense court, the interior rooms will all receive strong daylight, and prove almost as attractive as those opening on the streets.

At each front of the building there will be elevators leading to the various apartments. Leading from an immense basement court will be elevators for servants and delivery of supplies. Vehicles will have an entrance into the basement court.

The apartments on the ground floor will be arranged with special reference to the needs of physicians and will have entrances direct upon the street.

Each apartment will be built in two floors. On

one floor will be a foyer hall, billiard room, dining room, kitchen and servant's rooms, and on the other, bedrooms, parlor, bathrooms and library. The Apthorpe will possess no hotel features, being purely an apartment house of the finest type. The owner will furnish his own plant for heating, etc.

#### A New Postoffice Building.

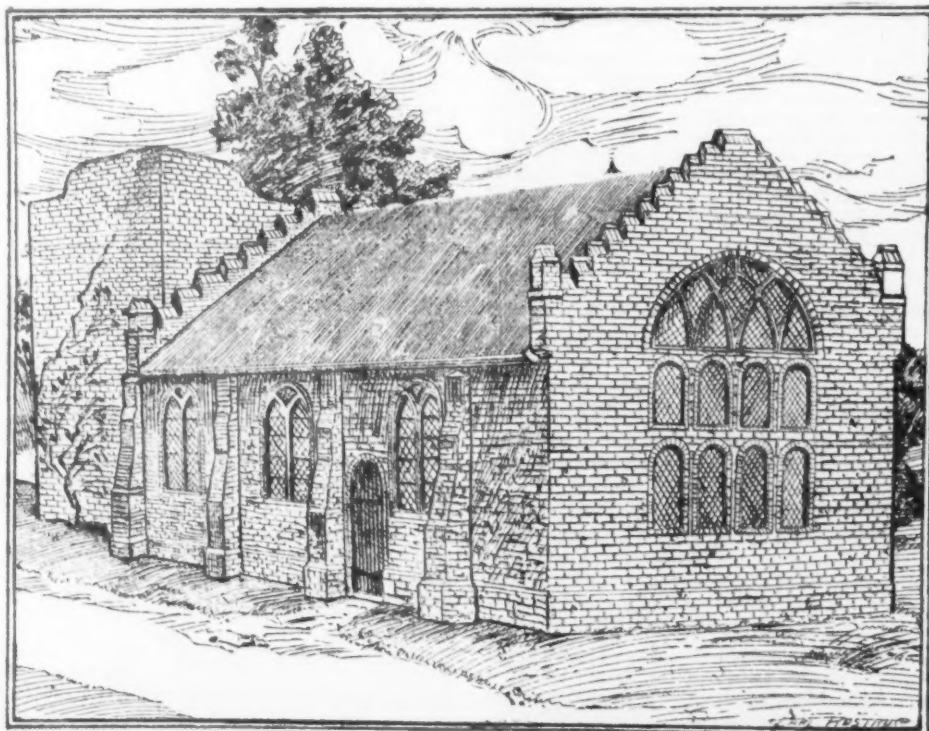
LOS ANGELES, CAL., June 27.—In the near future Los Angeles is to have a fine postoffice building, the total cost of which will approximate \$2,000,000.00. Plans and specifications have already been drawn at Washington, though the contracts will probably not be awarded for several months to come. The new edifice will be located at the corner of Main, Temple, Commercial and New High streets. The site to be occupied by the new building has been donated to the government free of cost.

Los Angeles' new postoffice building will be constructed principally of granite, sandstone, brick, iron, marble and reinforced concrete, and will be six stories high, and an attic. It will be built as near fireproof as possible.

On the Main street side will be four huge stone columns, between the second story wall and roof cornice, supplemented by eight lesser pillars, each surmounted by an eagle. Ornamental columns will stand on either side of the hallway, above which will be an immense stone eagle with outstretched wings. The entire front and cornice are to be elaborately decorated. Eight square windows will give light to the lower floors on the Main street side, while the attic will have seven rose-colored windows.

On the Temple street side will be located the offices of the post master and his assistant, with fine oaken floors and the vaults. A public corridor will pass through from the main corner entrance. Along the Main street side of the building is to be the public lobby. On the New High street side are bicycle rooms and tank rooms. On the Commercial St. side are the cashier's offices, vaults, money order room and stamp room.

The stone steps, platforms, cornices, etc., are to be of light colored California granite. The arches must be of the full thickness of the walls. Arches for the mansard roof must be of terra cotta of the best quality, moulded fair and true. Marble of various kinds and colors will be used in the flooring of the post office lobby and corridor; in the columns, ornamental mantels and mosaic floors. There will be interior decorations of the best Mexican mahogany. The stairways will be steel framed. With the exception of the new post office at San Francisco, the Los Angeles edifice will be the finest and most expensive building of the kind on the Pacific Coast.



MEMORIAL BUILDING TO BE ERECTED ON SITE OF JAMES TOWN (VA.) CHURCH.



AN INTERESTING SESSION.

**The American Society for Testing Materials Brings Out Some Startling Facts Regarding Defective Materials and Faulty Construction.**

ATLANTIC CITY, June 22.—The American Society for testing Materials met at the Hotel Chalfonte this morning. There was a large and enthusiastic attendance and the meeting was productive of much good. Never before in the history of the association has there been such an immense amount of enthusiasm manifested. The papers read were highly interesting and some of them will be printed in future issues. Maximilian Toch, of New York, created somewhat of a sensation when he said that the steel buildings of the United States are in constant danger of collapse through electrolysis. His paper which he read drew the attention of his fellow members to the risk upon steel ribbed structures through the constant freeing of electricity from trolley, telegraph and electric wires. Mr. Toch said that every big city is loaded with free electricity which is surely eating away the strength of all steel, especially that which is exposed to close contact with wires carrying electricity. He said that it was almost impossible to tell exactly how much harm was being done; that some buildings might last for years, while others were likely to show the strain at any moment. At the conclusion of his address the president appointed a special committee to investigate the effect of electrolysis in some of the largest buildings of the country, and the report of this committee will be awaited with a great deal of interest.

Mr. Richard L. Humphreys startled the association when he made the allegation that the municipal buildings in San Francisco were the first to fall, owing to the defects in their construction. His paper describing the effects of the earthquake on buildings in San Francisco was listened to with a great deal of interest. Mr. Humphreys declares his belief that investigation will show that the materials used in the construction of public buildings was inferior, causing these buildings to be weak in their vital points and the first strain of the earthquake caused them to topple to the ground and the glaring defects in their construction then became plainly evident. The public buildings were the first to fall, when privately owned buildings stood the strain with much less damage.

Mr. A. E. Carter, of Pittsburg, drew the attention of the delegates to the danger of boilers made from scrap iron. He asserted that this was being used as a material by unscrupulous manufacturers for greater profit. Boilers made of this material are very likely to explode at any time. Any manufacturer making a boiler of this material is guilty of criminal negligence and there ought to be some protection for the unsuspecting buyer. A thorough investigation of this matter will no doubt result in the accomplishment of a great deal of good, as it goes without saying that a great many of the worst accidents are caused by faulty construction or defective materials, and it is time to call a halt.

**\$15,000,000 Skyscraper for New York will Lead the Whole World.**

Exchanges of deeds between the City of New York and the United States Realty and Improvement Co., have paved the way for the erection of the largest and costliest business building in the world, on the site of the Boreel Building in lower Broadway. By these changes the realty company becomes the owner of the land lying on Thames and Temple Streets, and these thoroughfares are to be closed permanently. The city as an offset, receives a strip of land along the south side of Cedar street, from Broadway to Trinity place, which will enable it to widen Cedar street, and a thirty foot strip about twenty-one feet north of Thames Street, on which a new Thames street will be opened. The land of the present Thames street will be the site of an addition to the Trinity Building and of this enlarged Trinity, the new Boreel Building will be practically a twin. It will be built of iron, steel and Indiana limestone, and of the architec-

tural style, as is the Trinity. It will cost \$15,000,000.00. The enlarged Trinity building will have a frontage of 69 feet in Broadway and 74 feet in Trinity place, and the new Boreel Building will have about 61 feet frontage in each of these thoroughfares. The new buildings will be each twenty-one stories in height, as the present Trinity Building, except that the Trinity addition will have on its Broadway front an ornamental tower and dome comprising three additional stories.

Francis H. Kimball, the architect of the present Trinity building, is the architect of the new structures. The buildings will practically be duplicates of each other in interior arrangement, equipment and details of construction. That is to say, the new structures will attain the highest standard of construction as exemplified by the present Trinity Building, which is considered the most successful and complete office building in the world. The twin properties as completed, will be the costliest business structures in existence and represent to their occupants the acme of luxury, and in them will be employed every device known to modern architecture and mechanics, for the convenience and safety of their tenants.

The floor area in the present Trinity Building is 166,000 square feet. In the completed twin building there will be 386,873 square feet of additional space, making 552,873 square feet in all.

The new structures will be completed and ready for occupancy on May 1, 1907, and while this is admitted to be a tremendous feat in engineering and construction, it is confidently expected that the George A. Fuller Company, the contractors who are erecting the buildings, will complete them within this time.

Incidentally it may be mentioned that there will be great rivalry in the immediate neighborhood between the several great buildings which are in progress, notably the Hudson Tunnels Terminal buildings, the building of the City Investing Company, Broadway and Cortlandt street, the Singer building, Broadway and Liberty Street, and the large structure of the United States Express Company, at Rector street and Trinity place, and no doubt the public will be afforded considerable amusement by watching this race of Titanic skyscrapers. The Trinity-Boreel buildings, as improved, it is intended by the United States Realty and Improvement Co., will be held as a permanent investment.

**Attention, Master Composition Roofers.**

GREETING:—To the members National Association Master Composition Roofers and all Master Composition Roofers who are interested in the improvement of the roofing business:

The fifteenth annual convention will assemble in the city of Buffalo, N. Y., Monday, July 16, 10 o'clock a. m., at the Builders Exchange, Court and Pearl Streets. Three days are reserved for the convention, that all business of the convention can be acted upon with deliberation, and a full discussion had on all matters that will come before it, and that the many very interesting attractions that are to be found in the beautiful city of Buffalo, Niagara Falls and their picturesque surroundings will be sidetracked until the work of the convention is completed.

There are two classes of master roofers; we want those who are satisfied with the present conditions and those who are not; they that are satisfied should come to the convention and find out what the trouble is with the others, that they may be better prepared to avoid them; and those who are not satisfied that they may try to remedy them.

Excursion rates can be obtained from nearly all points to Niagara Falls. Every firm that has an established reputation for good work and honorable dealing is earnestly desired to become members of this organization.

The executive board is requested to meet in Lafayette Hotel, Clinton and Washington Streets, the evening of July 15. Hotel rates: European plan, \$1.50 to \$2.00, one person; \$2.50 to \$3.00 for two persons. Castle Inn, Hotel Niagara Square, American plan, one person, \$2.50, and two persons \$4.00 per day. Genesee Hotel, Main and Genesee Sts., European plan, \$1.00 to \$2.00 per day.

Directors: E. S. Bortel, Philadelphia, Pa.; C. A. Monks, Louisville, Ky.; Thos. S. Harkness, Cincinnati, Ohio. E. Machwirth, president, Buffalo, N. Y.; P. Le Goullon, vice president, Pittsburg, Pa.; H. C. Smither, second vice president, Indianapolis, Ind.; Wm. K. Thomas, secretary-treasurer, Chicago, Ill.

**Construction**

**The Magnitude of Modern Construction.**

The forms of construction have so changed in the past few years as to render the whole industry one of the greatest importance to the present generation. The methods in vogue now are certainly unique and the erection of a building as conducted along modern lines is, in many respects wonderful.

The invention of labor saving machinery has done invaluable service toward making the contractor's operations vastly more progressive. Today structures, bridges, railroads, and all other forms of construction are made possible within a comparatively short time. Now our skyscrapers rear themselves heavenward with incredible rapidity.

The genius of man has asserted itself most notably in this respect. Our cities are indeed becoming the wonders of the age, and the work of the constructionists in all branches, is the one notable cause which has done and will continue to do so much to make America the admiration of the civilized world.

**Future Construction in San Francisco.**

Mr. J. W. Roberts, government superintendent of construction upon San Francisco's post office building, is authority for the statement that those persons who are drawing from the lessons of the quake and fire the conclusion that the altitude of buildings should be limited by law, are entirely in error, and the correct deduction is to the directly opposite effect. Tall and narrow buildings, he says, are lifted all at once by earthquake shock, and depressed all at once without the straining and twisting that invariably attend the subjection of long and wide structures to seismic disturbance. He cites the fact that no tall buildings of modern construction were damaged by the shock, while low buildings of equally good construction, were, in most instances, very seriously effected where their lateral area was large.

Mr. Roberts also states that had the Spring Valley water mains been properly safeguarded, and their traversions of made ground avoided, or else braced by firm trestles anchored in the bed rock, the appalling catastrophe that followed the earthquake would have been entirely avoided, and that only a few scattered fires, easily extinguished, would have been the extent of the fire.

The immense 11-story Mills building, owned by D. O. Mills, the multi-millionaire, of New York, on Montgomery Street, may serve as one example as to the severity of the shock. This building has a steel frame. All the exterior frontage was of marble (first floor), then granite (second), all floors above that of fine pressed brick. All the flooring and partitions were of clay tiling. Vast quantities of fine California and Eastern marble were used for wainscoting. The heavy shock very badly damaged all this material except the steel frame. The flames also did great additional damage, the entire interior being gutted.

A very careful recent examination of the building shows that with the exception of the steel skeleton, it will have to be razed. A large percentage of the building material will have to be new.

This magnificent skyscraper made one of the hottest fires in the city. Many law offices were in it, and their wooden furnishings and law libraries afforded excellent food for the flames, though the building of itself was fireproof.

The steel skeleton however is in an excellent state of preservation according to the report of J. D. Galloway, civil engineer and building expert, employed to investigate the damage sustained.

The Park Avenue Construction Co., of New York City, has been organized with a capital stock of \$20,000.00. David and Leopold Bleier, Carl Herschman, Rosa Hirschman, all of New York, and B. Lechlman and B. Edelstein, of Rockaway Beach, L. I., are the incorporators.

### Some Fat Contracts Soon to Be Let.

Confidential agents for the Board of Water Supply have gone to Westchester County to negotiate in behalf of the City of New York for the purchase of 12,000 acres of land, including ten whole villages, fifteen miles of the main line of the Ulster and Delaware railroad and numerous farms, mills and factories. The entire area is to be cleared of every building, tree and shrub, and converted into gigantic reservoir to supply water to the Metropolis.

The cost of the land, buildings, etc., and the construction of the artificial lake, which will be the largest in the world, is estimated by the commission at something over \$29,000,000.00. The accessories to this reservoir, such as supplementary reservoirs and an aqueduct to convey the water to the city, will add \$132,000,000.00 or more to the municipal debt, making the total as great as the Federal Government is groaning under to build the Panama canal.

This new body of water to be added to the map will be known as the Ashokan reservoir, and will have a capacity of 170,000,000,000 gallons, or almost a year's supply for the people of the metropolis. A survey of the site shows that nature has already done nine-tenths of the work of building the reservoir. It is the other tenth that is to cost twenty-nine millions. The walls are two ranges of mountains and the bed of the prospective lake is a flat alluvial valley, formed by the sediment of mountain torrents. The basin thus constructed is the shape of the letter S roughly made and is drained by a river modestly termed the Esopus Creek.

### Women Vote for Macadamized Roads.

All the country round the town of Bedford, in Westchester County, New York, was in great activity on June 1. Men and women taxpayers hurried in automobiles, carriages and farm carts to the four sections of the township to vote.

The occasion was a special election, and women and men began casting their votes at sunrise, and it was expected that the polling would keep up until sundown, according to the general election law. For the four districts comprising Katonah, Mount Kisco, Bedford and Bedford Station, the day was like a grand holiday.

The officials of the township submitted to the taxpayers a question whether they are ready to spend \$195,000.00 for macadamizing the highways. All those whose property is immediately adjoining the line of contemplated improved roads voted to appropriate the amount.

A few farmers in the outlying districts do not see the use of spending so much money, but indications soon after the polls were opened pointed to a victory for the good roads forces, which carried by a large vote. All the women heard from cast their votes for the outlay of the \$195,000.00.

### A Newer Idea in Construction:

NEW YORK, N. Y., June 20.—The *Evening Post* expects to be established in its new home within a year's time. This building is now being constructed on Vesey Street, within a stone's throw of Broadway and overlooking St. Paul's churchyard. Men are at work on the foundations on which will be reared a modern building with thirteen stories above ground and two below.

The plans prepared by Robert I. Kohn, are the result of a study of all the modern newspaper buildings in the principal cities between St. Louis and the Atlantic Coast. The most characteristic and striking feature of the structure will be the assurance to its tenants of a degree of comfort hitherto found only in clubs, great corporation offices or residences.

The outward aspect of the building, the construction of which is in the hands of Elditz & Son, will be very simple. The general color effect will be white and green, produced by tall limestone piers framing bays of cast-iron.

Any box-like impression will be avoided by the general outline of the facade and a copper colored mansard roof which is to serve the double purpose of pleasing the eye and admitting an increased amount of light to the top floor through three big dormer windows. In the space thus lighted the compositors will work.

Of the fifteen stories in the building, the *Evening Post* will reserve for its own use the four top-most, one-third of the ground floor, and the two basements. One-half of the main floor, with a sep-

arate entrance on Vesey Street, will be occupied by the Home Trust Co., of Brooklyn, and the first and second floors have been leased to the United States Title Guarantees and Indemnity Co. The presses will be in the sub-basement.

The Southern Construction Co., of Wilmington, Del., has been organized to do a general contracting and construction business. The capital stock is \$25,000.00.

The J. T. Finn Construction Co., of New York, N. Y., has been incorporated. The capital stock is \$5,000.00. J. T. Finn, F. R. Welch and Robt. W. Conrow are the incorporators.

The Nichols Construction Co., of New York, N. Y., has been organized with a capital stock of \$25,000.00. H. M. Paradise, E. Nicholsburg and Geo. Schwartzer are the incorporators.

The Reid Contracting and Building Co. has been organized with \$2,500.00 capital stock, at New York, N. Y. J. E. Hager, Philadelphia, L. G. Meyer and Allen N. Conover, of New York, are the incorporators.

The State Construction Co., has been incorporated in New York City with a capital stock of \$25,000.00. Those interested are: K. P. Walker, 5 East Forty-second Street; S. P. Howard, both of New York City.

The Livingston Construction Co., of Troy, N. Y., has been incorporated with a capital stock of \$5,000.00. The directors are: G. G. Ellister, of Springfield, Ohio; C. A. Roemer, of Troy, and R. M. Booth, of Albany.

The Fressler Co., of Union, N. J., has been organized with a capital stock of \$150,000.00. Louise M. Worth, Wm. Fressler, Henry Fressler are the incorporators. The company will do building, contracting, etc.

The Astoria Construction Co. has organized a general contracting organization. The capital stock is \$500.00. Those interested are: T. A. and Sarah C. Brown, Long Island City, and Thomas Callahan, of New York.

The John C. Gobler Co. has been organized at New York, N. Y., to do general contracting, etc. The incorporators are: Theresa H. and John C. Gobler, J. P. Lamerdin and Otto Lange. The capital stock is \$10,000.00.

The San Domingo Construction Co., of Camden, N. J., has been organized to construct railroads, street pavements, etc. Capital stock \$125,000.00. H. F. Stockwell, E. G. C. Bleakley and F. G. Toram are the incorporators.

Sage Bros. have organized at Brooklyn, N. Y., to construct buildings, etc., with a capital stock of \$30,000.00. Those interested are: M. J. Sage, 1570 Forty-seventh Street; A. K. Sage and Charles H. Sage, of Batavia, N. Y.

The Decicco Contracting Co., of Larchmont, N. Y., has been organized with a capital stock of \$50,000.00. The directors are: Michael Decicco, Larchmont; Joseph Diamond, Mamaroneck, and J. F. Gregory, Greenwich, Conn.

The Lobb Construction Co., of Portland, Me., has been incorporated with a capital stock of \$500,000.00 to do general contracting. The officers are president and clerk, M. W. Baldwin; treasurer, C. E. Eaton, both of Portland.

The Southern Tier Construction Co., of Binghamton, N. Y., has been organized to do general contracting and building. Capital stock \$3,000.00. S. M. Smith, C. F. Gallor, H. J. Kneeland, all of Binghamton, are the incorporators.

The Colt & McLane Co., of Orange, N. J., have been organized with a capital stock of \$10,000.00. They will engage in real estate, building and contracting business. S. S. Colt, William McLane and Edward Geach are the incorporators.

The East New York Construction Co. has been organized at New York City by I. Wolowitz, New York City; H. Freifield and A. N. Schwartz of Brooklyn. Capital stock is \$30,000.00. The company will do a general contracting business.

The Progressive Realty and Construction Co., of Jersey City, N. J., has been organized to do building, contracting, etc. H. E. Evertsen, J. H. Weastell, T. J. Wood, all of Jersey City, N. J., are the incorporators. Capital stock is \$125,000.00.

The Nassau Supply Co. has been organized in New York City with a capital stock of \$10,000.00.

Those interested are: J. M. Fraser, C. F. Johnson and John J. McCarthy, 182 Broadway. The company will do contracting, road building, etc.

The Atlanta Brick and Ballast Co. have been organized at Jersey City, N. J.; to do contracting and deal in building material, etc. Capital stock is \$100,000.00. The incorporators are: E. A. Montfort, E. L. Barney and Dr. C. A. Hegean of New York.

The P. A. Stewart Co., of Gloucester, N. J., has been organized with a capital stock of \$100,000.00. The company will do contracting, building, etc. P. A. Stewart, of Gloucester, N. J., J. M. Kelley and F. S. Warren, of Camden, N. J., are the incorporators.

The Collister Construction Co., of Jersey City, N. J., has been organized with a capital stock of \$100,000.00. The company will do building of bridges, railways, buildings, etc. Chas. N. King, Le Grand Boucker and George H. Russell are the incorporators.

The Owen Construction Co., of Brooklyn, N. Y., has been incorporated with a capital stock of \$20,000.00. W. C. Owen, W. C. Owen, Jr., J. D. Sabine, of Brentwood, N. Y., and E. W. Lester are the incorporators. The company will construct buildings, etc.

The Granite Construction Co., of 419 Market Street, Camden, N. J., has been incorporated by S. L. Kent, Lansdown, Pa., W. L. Rogers, River-ton, N. J., S. B. Lloyd, Philadelphia. Capital stock is \$100,000.00. The company will do building, contracting, etc.

The Bergen County Construction Co., of Ridgewood, N. J., has been incorporated to do a general contracting business with a capital stock of \$25,000.00. N. S. Cuberly, P. I. Hover, W. L. Platt of Ridgewood, and George Hoffmeyer, of Hoboken, N. J., are the incorporators.

The Colonial Fire Proofing Co. has been organized in New York City to do contracting and building, also deal in building materials and fire proofing. The capital stock is \$2,500.00. Donald-Ferguson, E. H. Cranwell, Robert Walsh and Anna M. Cranwell are the incorporators.

The Curran Contracting Co., of New York, N. Y., has been organized to do general contracting, including railroads, bridges, etc. Capital stock \$10,000.00. Incorporators are: E. J. Talley, 31 LaSalle Street, E. J. McCarthy, White Springs, N. Y., and W. J. McDonnell, of New York.

The Rockingham Contracting Co. has been organized at New York, N. Y., to do a general contracting business with a capital stock of \$500.00. M. O. Humstone, 213 Hancock Street, Brooklyn; A. F. Halstead, Ridgewood, N. J., and W. S. Robertson, of Brooklyn, are the incorporators.

The Treaty Island Co., of 707 Broad Street, Trenton, N. J., has been organized to do building, contracting and deal in building material. The capital stock is \$1,000,000.00. Wm. E. Groves, Philadelphia, W. H. Duvall, Hartford, N. J., and Edmund Borroughs, Trenton, N. J., are the incorporators.

Lawler Bros. Construction Co., of New York, N. Y., has been incorporated. The capital stock is \$10,000.00. The company will construct railroads, bridges, etc. W. J. Lawler, Grand Union Hotel, New York; John S. Lawler, Bartow, N. Y., and B. M. Lawler, Charleston, Mass., are the incorporators.

The Maryland Construction Co. has been organized at 419 Market Street, Camden, N. J., to erect hydro-electric works, dams, power-houses, etc., for the transmission of power from water, steam, etc. The capital stock is \$100,000.00. Those interested are: Joseph Welch, George R. Harlow and George H. B. Martin, all of Camden.

The Stevens-Hewitt Engineering Co., of Hoboken, N. J., has been organized with a capital stock of \$200,000.00. The company will do contracting, building and engineering. Edwin A. Stevens, Hoboken, N. J.; Irving Cox, L. B. Leavett, both of New York; C. E. Hewitt and M. C. Hubbard, Chatham, N. J., are the incorporators.

The North Hudson Construction Co., of River Road, Woodcliff-on-the-Hudson, N. J., has been incorporated with a capital stock of \$150,000.00. The company will do general contracting, engineering work and deal in building materials. The incorporators are: J. G. Truelson, New York City, A. J. Ellis and F. C. Gruen as above.



## Monuments.

### The Need of Higher Ideals.

The one thing needful in the monumental business to-day is a greater regard for the artistic. It can be said with shame that many of our costly jobs are most sadly lacking in this regard; the average monument being a disgrace to that finer accoutrement of our natures, called art. It does not need the eye of a connoisseur to detect this want of a simple, chaste beauty, for its absence must impress itself upon the casual observer most painfully.

Glance in the show rooms of many of our dealers, or better, walk through our cemeteries in the larger cities, and behold the sacrilegious specimens which mark the last resting place of our dead. What forms of mockery to art itself; what hideous abortions of the sculptor's chisel greet our eyes. Faugh! What a want of symmetry, a lacking in grace, a conglomeration of false ideals.

Do we boast of these as the culture of a twentieth century civilization? Are these the works of men who profess to be adepts in their beautiful art? and to what is all this want of culture due? Is it that in our greed for gold we have even come to desecrate the hallowed spots of our departed ones? Rather let us believe that it is ignorance—much as it reflects on our education.

Greater care, more study and a deeper feeling of the dignity of his calling should force the monument dealer to strive for a higher plane. The arguments against the possibility of this are doubtless strong, but unless he first gives the encouragement, how can he hope for a change of sentiment? It is true that the age is, to a degree, far from being what might be termed an artistic age, but there lurks in the breast of many a smouldering admiration for the beautiful in all

things. This must be cultivated and nurtured, so as to create a stronger desire for higher ideals in monumental work.

To a degree, it might be said, the dealer is at the mercy of his prospective customer. They see some design which strikes their fancy, but which is too often, wholly inartistic. In order to keep the customer and make the sale he will comply with his customers' desires. Not infrequently he is entirely devoid of the artistic sense himself, and can offer no suggestion which would tend toward the higher and more beautiful design. In this respect the monument industry has retrograded, and many are now engaged therein who are far better suited to other lines.

Occasionally we find a man who holds the ideal aloft, who strives for the artistic and often convinces his customer to take the same view, but alas, these dealers are too few. They struggle against their numerous adversaries who have only the faintest conception of true art. With such conditions how can he hope to stem the tide in vogue to-day? Shall we not urge, useless as it may appear, a more serious consideration of this feature of the industry? It is utterly impossible to attain the highest in any undertaking without earnest effort. The monument industry needs a regeneration, and the dealer must do his part to bring this condition about if it is to be done at all.

### The Care of Air Tools.

Careful and systematic attention to the cleaning and lubricating of pneumatic tools will show large returns for such care. The delicate, close fitting and rapidly moving parts require proper lubrication to keep them in working order. In the construction of these tools a very high grade of workmanship is necessary to insure efficiency and the working parts must be kept by lubrication from cutting or undue wear or the effect of the motive power will be seriously lessened.

Kerosene is the best thing to use for cleaning pneumatic tools and when leaving the shop for the day it is a very good thing to set the tool in a bucket of kerosene entirely immersed. When taken out in the morning a carving hammer, such as is used by monumental workers, can be easily wiped off with a flannel rag and then oiled with a light body lubricating oil. Sewing machine oil is good to use as well as any of the specially prepared pneumatic tool oils on the market. Heavy oil should never be used as the compressed air for operating the tool has a tendency to lower the temperature and to make the oil gummy, and this interferes with the speed and dependability of the tool.

When new tools are first started, they should be frequently oiled. In fact, the lubrication of a pneumatic is one of the important things which must be learned by the man who intends to operate one. A little attention upon this point carefully considered and conscientiously followed up will obviate many of the difficulties that are constantly being reported, stop a great many complaints and contribute a considerable percentage of profit to the tool account.

### The Polar Star.

QUINCY, MASS., June 2.—A. Ghigli the sculptor, is the recipient of much praise for the latest production in his art. The accompanying cut is that of the model, "The Polar Star," and will adorn the interior of a wealthy Boston merchant's residence. The pose is perfect and held aloft is the star so arranged that an incandescent globe will shed electric light in all splendor. It was the whim of the owner to have the light so arranged. The idea was quickly seized by Mr. Ghigli, who on short order, turned out this very excellent specimen of the sculptor's art.

### In Which the Editor Apologizes.

By a peculiarly unfortunate series of errors in our typographical department the name of Mr. Joseph F. Kaunzner, the well known monument dealer at Fort Atkinson, Wis., is invariably misspelled. Where there are thousands of names each month it is little wonder that so many of them are spelled correctly and so few otherwise. Few people stop to think of this and as soon as their name is misspelled feel as if they had been done an injustice. We assure Mr. Kaunzner that we shall endeavor at all time to see that his name is properly spelled and shall knock the block off the printer's devil if it occurs again.



G. A. B. MONUMENT, ERECTED AT FORT SCOTT, KAN., BY D. B. BRUCE & CO.

### Monument Is Unveiled.

FORT SCOTT, KAN., May 30.—The monument which was erected in the court house yard dedicated to the defenders of America's greatest cause, was unveiled this afternoon with appropriate exercises. The monument stands 30 feet high from the ground line, including the statue. The statue alone being 8 feet 6 inches. The total weight of the monument is 60,000 pounds, the material in the monument and statue being gray New Hampshire granite. The third die is of Quincy granite, polished. All the balance of the monument is hammered work. It is composed of three bases. The first die contains this inscription: "In memory of the volunteer defenders of the Union, 1861-1865." The second die is of fine polished granite and bears this inscription: "1906. Erected by William H. Lytle Post, No. 32, Department of Kansas, Grand Army of the Republic, by public subscription." On the same die directly beneath the inscription is the Grand Army badge followed by this inscription, "The men in whose honor this monument was erected were led by the fires of liberty. They fought for no North, no South, no East, No West, but for one glorious and united Country." The second plinth and cap over the second die is decorated with stars and the four corners of the cap upon which rests the statue bear carved emblems of the Army and Navy. The inscriptions in the first die are carved with raised letters. The statue represents the private soldier at parade rest. The whole monument with the exception of the statue is the work of D. P. Bruce & Co., and was designed by A. A. Menezes. The total cost of the monument was about \$2,000,000.00.

### Had a Good Run of Business.

BRIGHAM CITY, UTAH, June 20.—John H. Bott & Sons are enjoying a good run of business this spring. Mr. J. H. Bott, Sr., had to have two operations performed on himself during the past winter and was unable to attend to business. However, we are glad to note that he is able to be out again and his friends are all congratulating him upon his recovery.



THE "POLAR STAR" MODELED BY A. GHIGLIE, QUINCY, MASS.

### Association Benefits.

We have received the following communication from Mr. J. B. Roberts, president of the Georgia Marble Retail Dealers' Association, and we take pleasure in presenting the article in its entirety:

It gives me great pleasure to announce through your valuable columns the progress of our association.

Since our organization on the 14th day of April I believe that our members at large have realized the value of such an organization, as they have shown their hearty support in every movement pertaining to our success. While the minor details of our organization have not yet been perfected, a great many of the dealers have realized that a profit can be enjoyed from their output instead of handling it at cost.

I recall an incident two or three weeks ago when I was in the office of one of our leading members and dealers, another of our brother dealers came in, and not recognizing the writer, says Mr. P., Miss Smith is waiting in my office for prices on design No. . . and I have no work and a number of bills that will be due in a few days. (This was where I watched for results). While Mr. B. was thinking and waiting for me to make a crack, the caller says: "We are both members of the association and I will contend for legitimate prices if I go broke." What was the result? He secured Miss Smith's contract at a legitimate price, and on my return I found a letter from Mr. B., stating that on the same afternoon he was confronted with a similar proposition and secured the contract. The customers were not only pleased with their prices but will actually receive a better class of material and workmanship. I have since learned that the competition between these dealers has been so heated that the majority of their sales for the last two years had been made below cost. They have buried the hatchet and are now making an honest living and giving their patrons a much better grade of material. I merely mention this incident to show the importance of our association, not only to the dealers but to the purchasers. Such an organization is a protection for the people.

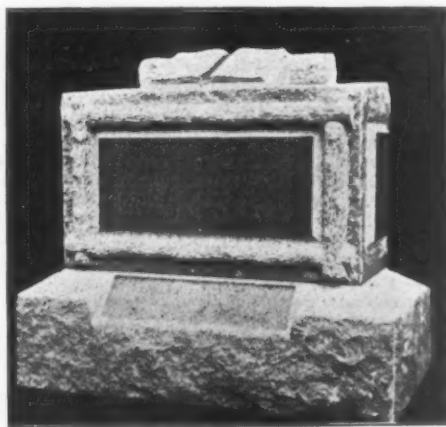
It is only a question of time when you will see the people of our State refusing to make contracts with other than members of such an association.

We have only a few dealers in the State who are not members, but are confident after seeing a copy of our constitution and by-laws, which will be completed at our next meeting that will be held the latter part of August at Tybee Island, Ga., that we will have the pleasure of extending a hearty welcome to these few. I have been assured of a very large attendance and quite a number of our dealers will bring their families to enjoy the ocean breeze. Special arrangements will be made for the entertaining of the lady guests.

I trust that you have been able to enroll every dealer in Georgia as a subscriber of Rock Products. I consider it the information bureau of every successful marble dealer in Georgia.



SOME EXAMPLES OF RUSTIC MONUMENTS, CARVED FROM GEORGIA MARBLE AT BLUE RIDGE MARBLE CO., NELSON, GA.



LOG SARCOPHAGUS DESIGN, EXECUTED IN EXTRA DARK AND MEDIUM QUINCY GRANITE, BY GEORGE RUXTON, QUINCY, MASS.

### Monument of Unique Design.

QUINCY, MASS., July 2.—George Ruxton, the well known manufacturer has recently shipped to western parties a job of unique design and an excellence of workmanship which can not easily be surpassed. The design is known as the log sarcophagus and the blending of extra dark and medium Quincy granite is perfect. The accompanying cut gives but a vague idea of the job in its entirety. The darker granite is highly polished while the one of medium color is finely carved and hammered, so that in no part of the job is there a blemish. The work speaks volumes for Mr. Ruxton, who allows no job, either large or small, to leave his yard without first passing his critical eye.

### Winston Marble Works.

WINSTON-SALEM, N. C., July 2.—Mr. J. A. Bennett is a dealer in marble and granite monuments at 430 Main Street, Winston-Salem, N. C. Mr. Bennett is a practical workman, having learned the trade when a boy and he has built up a nice business by strict integrity and close attention to the details of his business. He carries a stock of finished work on his floor which speaks well for his abilities as a designer and workman.

### Has a Splendid Location.

TEXARKANA, TEX., June 29.—The Allen Marble Works write us as follows: "We have been here for ten years and consider this one of the best locations in the South. Our shipping facilities are unsurpassed and there is but one other dealer within seventy miles of here. This is a city of 20,000 inhabitants and growing every day. We have a fine plant and work six pneumatic tools and are going to put in a polishing surfacer and work granite some time this fall. Business is excellent and the prospects are flattering."

### Beautiful New Home.

WICHITA, KAS., July 7.—The Wichita Marble Co., manufacturers and dealers in high grade granite and marble monuments, have moved into their new home, the Clapp building, 307 North Main Street, which was built for their own use. We can not cite a more striking example of successful steady growth and expansion of a business enterprise than this company. The building is constructed with a solid concrete floor, the floor space being 143 by 25. They have on display at all times a large assortment of marble and granite monuments. The firm is composed of Messrs. R. W. Park and W. E. Marsh and they have been in business continuously for the past 20 years. They enjoy the confidence of the community and have built up a large business by their strict integrity and close attention to details.

### Monuments Escaped.

ONE of the remarkable features notable in the destruction of San Francisco is the fact that very few of the handsome public monuments of the city were seriously damaged. In fact, most of them escaped entirely unscathed in spite of the great severity of the earthquake shock and the intense heat created by the fire. This may be due to the fact that most of the statues stood at the intersections of streets or out upon the public plazas far enough removed from falling walls and the actual seat of the conflagration to render them impervious to the fire, while no good explanation has been given as to how they escaped from the force of the shock, for practically all can be repaired at comparatively slight expense. The worst feature is that all of the splendid specimens of sculptured marble that were housed in the buildings of either public or private collections were either broken in the hurried efforts to remove them from danger or destroyed by the flames, and many of them can not be replaced.

One competent critic remarked that the reason that the great public statues and monuments escaped was because in most instances the base was a single block of stone which allowed the shaft to swing like an inverted pendulum above the ground from the force of the shock uniform with the motion of the base, so that it settled back to approximately its former position well within the line of stable equilibrium at least, while, elevations composed of many stones in the buildings were rent with a torsal action, tearing the bond apart, and grinding the integral pieces of stone.

### Mount Airy Marble Works.

MOUNT AIRY, N. C., June 29.—W. D. Haynes & Co. are the proprietors of the Mount Airy Marble Works. This firm manufactures and deals in marble and granite monuments. They are situated within a short distance of the Mount Airy granite quarries, one of the finest bodies of granite in the United States. They use this granite for foundation bases, which they make larger than the usual size, which gives the monument a more substantial appearance and makes a better and stronger job of work. Mr. Haynes is not only an experienced workman, but a first class salesman and covers a wide territory. He has erected some of the largest monuments in this section of the country and that they have given eminent satisfaction is attested by the fact that his business is constantly increasing and he hopes in the near future to install a complete pneumatic plant so as to better enable him to handle his large trade.

### Added a Surfacing Machine.

HARDWICK, VT., June 26.—Mr. William B. McDonald, who is one of the most successful marble and granite monument dealers in this locality, has recently added a surfacing machine to his equipment which enables him to produce much better results. Business has been exceptionally good and the prospects for a continuation of the same are most rosy.

### Will Commence Operations Soon.

HARVARD, ILL., June 27.—William F. Haertel, who was formerly in partnership with his brother Walter in the monument business at Dundee, has decided to locate here and has purchased a location down town upon which he will erect a suitable building without delay. A wide reputation for honesty enjoyed by Haertel Bros., of Dundee, will be a valuable asset in the business here.



JOHNSON MARBLE WORKS, QUITMAN, GA. THE BUILDING IS MADE OF CONCRETE HOLLOW BLOCKS.



PUBLIC MONUMENTS OF NEW ORLEANS

Some of the Famous Memorials and the Sentiment in Which They Are Held.

NEW ORLEANS, LA., June 21.—There is possibly no city in the South that has as many monuments to heroes as New Orleans. Every cemetery has its handsome monuments and tombs dedicated to some gallant hero of the civil war or that made themselves famous in the service of the country. Those erected to soldiers were placed of course in the past forty years, while those to other famous men in the nation's history were erected earlier.

Possibly the first monument to be erected was the Chalmette monument that marks the battlefield of New Orleans when Jackson gained such a signal victory over the British, January 8, 1815. This monument was begun in 1830 and was ten years in building to its present height, 60 feet. It was the purpose to have it 100 feet high but after the appropriations had been expended and ten years of time consumed the plan was abandoned for a time. It is built of solid blocks of white marble that were brought from Italy in sailing vessels long ago. In these later years the keeping and the completing of this monument has been given over to the Daughters of 1776-1812 and it is their purpose to ask congress to appropriate funds for its completion. But right here comes in another obstacle. The New Orleans Terminal Co., composed of some of the greatest railroad systems in the United States has bought the land all about the monument for ship slip and wharves and elevators and it is possibly only a question of time when the monument will give place to a big grain elevator or a warehouse.

Lower down the river, possibly a mile from the monument is the National Cemetery where 12,200 Federal soldiers lie buried. At each grave is a neat head stone. In the center of the cemetery is an appropriate monument erected in 1883 by Joseph A. Mower Post, G. A. R. A round



THE CONFEDERATE MONUMENT AT THE CRESCENT CITY.

shaft of granite surmounts a square base. The shaft is surmounted by stacked arms and furled flags in bronze and on the side of the shaft is the G. A. R. badge also in bronze. Where the shaft rests on the base is a circle of cannon balls and pointing downward from the four corners of the top of the base are four cannon. The base rests on a green mound and the curbing is set with cannon balls. The one inscription is, *Dum Tacet Clamant.*

In 1856 a monument was erected to Henry Clay. A statue twelve feet high surmounts a granite base. The statue was sculptured by the famous Kentucky artist Joel T. Hart and the base is of Kentucky freestone that is gray with all the years' storms. Until the past decade it stood in the center of Canal street upon the identical spot, so the legend runs, where Mr. Clay once stood to address the citizens of New Orleans in a famous political speech about the year 1840, and was the place of all others where strangers were wont to meet when separated from each other in the city. When there was business of great import the people assembled there en masse. The great revolution of 1874 was stirred to outbreak by speeches delivered at the foot of the Clay statue. The lynching of the Mafia members in 1891 resulted from speeches made there. When the travel of the street railway system required more tracks on Canal street the statue was removed and placed in Lafayette Square, where it occupies the place of honor in the center. The statue of Benjamin Franklin that occupied the center was moved to one side of the square opposite the statue erected in memory of John McDonough, the philanthropist. The Franklin monument was sculptured by Hiram Powers and was presented to the city in 1872. It is of Italian marble and rests on a granite base.

Possibly the most imposing monument in the city is the one erected to the honor of the great Confederate General Robert E. Lee. At the intersection of Howad avenue and St. Charles street is a high terrace from the top of which rises a marble monument 106 feet high. It is built of white marble blocks and the effect is an immense fluted column that rests on a broad limestone base that has as its foundation cypress riling driven deep into the earth and bolted together. The column contains a stairway and just under the statue, which is of bronze, is an observatory.

In nearly every cemetery, except the old St. Louis cemeteries in which no recent interments have been made, except by owners of tombs, there have been handsome monuments erected to the Confederate soldiers. In Metairie cemetery, are possibly the most handsome ones. Close to the entrance is a mammoth vault covered over with the earth where the members of the Louisiana Division of the Army of Tennessee are laid away one by one as they are called hence. The portal is an elaborate white marble affair sur-

mounted by military emblems, the crosses, cannon and flags. Surmounting the tomb is an equestrian statue of Albert Sidney Johnson, by Doyle. Near the entrance is the statue of an orderly calling the roll. It is white marble. In the tomb among others are the remains of General P. G. T. Beauregard, one of the great Confederate chieftains.

The tomb of the army of Northern Virginia is surmounted by a tall shaft crowned by a statue of General Stonewall Jackson. It was in this tomb that the remains of Jefferson Davis reposed for two years before being removed to Richmond, Va.

Near by is the monument to Washington Artillery. It is not so tall as many of the monuments but more elaborate in design. It, too, surmounts the tomb of the old, old military organization and on the sides of the tomb are the names of those who have answered to the last roll call. The monument is surmounted by a standing figure of an artilleryman.

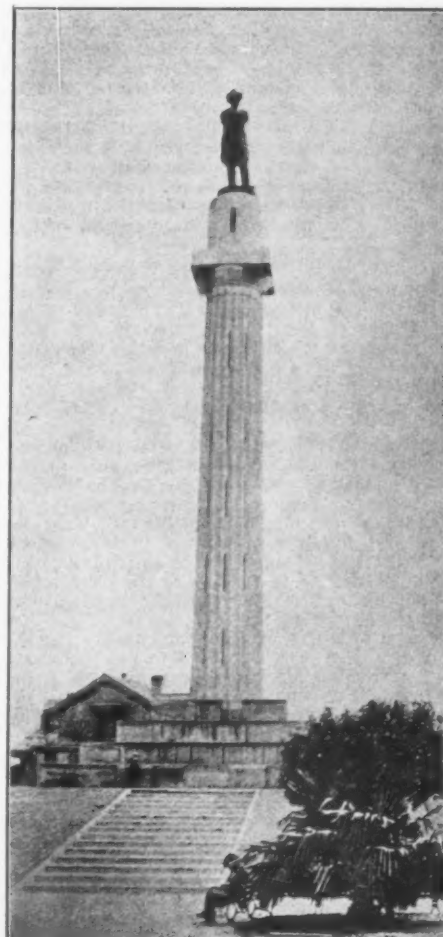
Almost every entrance to Greenwood is guarded by a monument to the Confederate dead placed by the Women of the Confederacy. One of the handsomest of these is a white marble monument surmounted by a private Confederate soldier. Around the four corners of the shaft are the busts of Robert E. Lee, Albert Sidney Johnson, Stonewall Jackson and Leonidas Polk. In the tomb beneath are the remains of over 600 Confederate soldiers which were gathered several years after the Civil War from many battlefields. This was the first monument erected to the Confederate dead in the city.

Humboldt Marble Works.

HUMBOLDT, TENN., June 22.—The Humboldt Marble Works is one of the oldest and best known monument establishments in the entire south, the firm having started in business just after the Civil War. They have earned an enviable reputation by their fair dealing and honest business methods and no firm in the South stands higher than they do. The present members of the firm are Mr. A. H. Stehr, who has been with the firm for the last twenty-three years, and Mr. D. P. Conway, who



STATUE AT NEW ORLEANS, LA., OF BENJAMIN FRANKLIN.



MONUMENT TO GENERAL ROBT. E. LEE, ERECTED AT NEW ORLEANS.



MONUMENT ERECTED AT NEW ORLEANS TO THE MEMORY OF HENRY CLAY.

has been with them for fifteen years. They now have forty-six men working at their plant. They cut Georgia and Italian principally, still they handled about three carloads of Barre this spring. Mr. Stehr is now figuring upon putting in a complete pneumatic tool outfit to better enable him to cope with the large and increasing trade. The Humboldt Marble Works covers the entire south with their traveling men. Mr. Stehr was very much pleased with the sample of the North Carolina Blue Pearl granite which the Consolidated Granite Co., of Winston-Salem, N. C., had sent to him, and said that if any one was partial to dark stock that this would certainly please them. Mr. Stehr will add a line of this granite to his stock and feels satisfied that it will find a ready sale. At the recent meeting of the Tennessee monument dealers held in Nashville, Mr. Stehr was among the most enthusiastic of those present, and seemed very much encouraged over the prospects for the formation of an association, although there were not at that time a sufficient number present to do anything. He says that if the dealers generally could be brought to realize the vast amount of good to be accomplished by association work he felt satisfied every dealer in the state would be ready and willing to join. Let the dealer lay aside his jealousies and business cares and meet once or twice a year on the same footing with his competitor, and the exchange of ideas and the good fellowship alone will be worth any expense to which he might be put in attending such a meeting.

#### Kentucky Retail Monument Dealers Meet.

A number of retail monument dealers met at the Galt House, at Louisville, Ky., on June 15, for the purpose of forming an association in Kentucky. Just at the time the meeting was called to order there was a parade in the street and other excitement incidental to Home Coming week, which quite naturally frustrated every one present. The dealers held little informal gatherings among themselves and discussed the situation, but no concentrated effort was made after this to get them all together. Many of the dealers brought their wives and families and were too busy sight-seeing to attend any meeting, but all, however, expressed themselves as heartily in favor of an association and said they would be willing to attend a meeting to be held some time the latter part of August for the purpose of effecting a permanent organization. In the meantime we will be pleased to hear from any of the dealers regarding the formation of an association giving their views of the matter, and any suggestion along this line will do much towards furthering the interests of the organization. We believe the time is ripe for the formation of an association in Kentucky, as a great many of the other states are getting in line and the Kentucky monument dealer will have to bestir himself.

#### Georgia Marble Retail Dealers' Association.

We are in receipt of a communication from Mr. J. B. Roberts, president of the Georgia Marble Retail Dealers' Association, in which he says the next meeting of the association will be held at Sweet Water Park Hotel, Lithia Springs, Ga., August 3 and 4. He says it is his purpose to push the proposition vigorously within the next two or three weeks and get in communication

with every dealer in Georgia and arrange for the meeting. President Roberts says that the association is in a flourishing condition, and that those of the dealers whom he has visited personally are manifesting great interest, and that in all probability the mid-summer meeting will be very largely attended. By the time the next issue of Rock Products is ready to go to press we will be able to give the exact date and also a complete program.

#### Tennessee Retail Dealers' Association.

A few of the most enthusiastic retail monument dealers in the State met at the Maxwell House in Nashville, on June 5 last, to discuss the advisability of forming an association among the dealers in the State of Tennessee. Those present were highly enthusiastic over the prospects for forming such an association and pledged their heartiest support. Another meeting will be held in all probability some time during the first part of September at the same place, and no doubt a larger number of dealers will be in attendance and a permanent organization will be formed. Quite a number of dealers were heard from previous to the last meeting, stating they were heartily in fa-



G. A. R. MONUMENT, NEW ORLEANS, LA.

vor of the association, and a great many of them promised to be on hand, but when the time came were prevented from doing so by unforeseen happenings. There are quite a large number of dealers in the State of Tennessee who have not yet been heard from on the subject and we would like to hear from them with any suggestion as to the date of holding the meeting. It is needless to dwell at this time upon the urgent need of the association or the vast benefits that might accrue from such an organization. The live and progressive dealer of to-day realizes the necessity of organization for mutual protection. The few present at the first meeting did not feel as if they would like to adopt a constitution and bylaws as representatives of the entire State, thinking it best to wait until a larger representation should be present. Rock Products stands ready and willing to co-operate with the Tennessee dealers in their efforts to form this association and will do everything in its power to assist them in the good work.

#### Salem Monumental Co.

SALEM, OHIO, June 26.—The Salem Monumental Co., of which Mr. Fred Nellie is manager and treasurer, has been enjoying a brisk spring and early summer business. Mr. Nellie carries at all times a big stock of monuments and markers of all kinds, and enjoys the confidence of the community.

It has been decided to hold a meeting of monument dealers at Chicago, during the latter part of August at the Great Northern Hotel to organize a National Association. All those interested should be on hand. Exact dates and details will be published in our next issue.

#### North Carolina Retail Monument Dealers.

There is some talk of forming an organization among the retail monument dealers in this State and the Rock Products' representative in conversation with dealers in several sections of the state, finds a growing desire upon their part to form an association. Conditions are ripe for an association of this character at the present time, for there are many crying abuses which need remedying, besides the need for mutual protection and the desire for better acquaintance among the dealers generally. It was suggested by a number of dealers that Rock Products call a meeting of the retail dealers of the State at Greensboro, or some other centrally located point some time in September. In the meantime we would like to hear from the monument dealers of North Carolina as to their views in the matter and also their preference, if they have any, for a place of meeting and a date. Rock Products can be depended upon to co-operate with the dealers in North Carolina and will give them their hearty and earnest support in their movement.

#### The Wisconsin Retail Granite and Marble Dealers' Association.

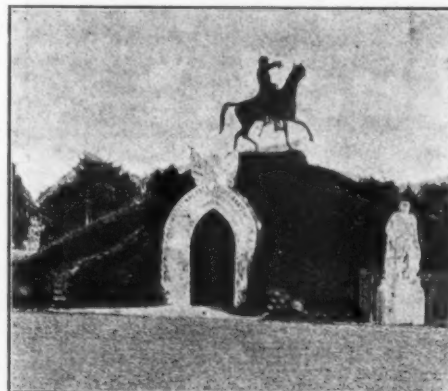
The Wisconsin Retail Granite and Marble Dealers' Association will hold its second semi-annual meeting at Madison, August 14, 15 and 16. Mr. S. A. Collins, the secretary of the association, writes as follows: "We expect to arrange a good program consisting of short business sessions, lake excursions and social enjoyment. We are negotiating for a fare of one and one-third and are practically assured that same will be obtained. We extend a cordial invitation to all dealers and their families." The Wisconsin retail monument dealer is fortunate indeed in having such a charming place as Madison in which to hold his meeting. No more delightful resort than this can be found at this time of the year. No doubt every dealer in the State will avail himself of this opportunity to get together and discuss business conditions under these pleasant circumstances and enjoy the program which the genial secretary has prepared.

#### Southwestern Iowa Monument Dealers.

The monument dealers of southwestern Iowa and also the monument dealers of eastern Nebraska and northern Missouri, had a big outing at Big Lake, Bigelow, Mo., June 21, 22 and 23. Bigelow is an ideal place to combine business and pleasure, as boating and fishing on the lake is a very delightful diversion, and the monument dealers enjoyed themselves to the fullest extent. J. C. Sullivan acted as vice president of the occasion and popular Charlie Field, the secretary of the Iowa Retail Dealers' Association, presided as secretary. The meeting was productive of much good and was quite largely attended.

#### Joplin Monument Works.

JOPLIN, Mo., June 28.—A company has been organized here to manufacture marble and granite monuments and use the by-products of the plant for making lime. The new company will be incorporated at \$20,000.00 and will commence operations as soon as they can erect suitable buildings. In addition to a large plant here a smaller one will be maintained at Carthage. The incorporators are: K. W. Kellogg, Carthage; Frank M. Myers, Carthage; William B. Myers, Joplin.



ARMY OF TENNESSEE MONUMENT AT NEW ORLEANS, LA.



**More Than Double Previous Record.**

REEDSBURG, Wis., June 26.—Mr. Sanford A. Collins, the well known retail dealer in granite and marble monuments, writes as follows: "Trade conditions in our vicinity, to all appearances, are the best we have ever experienced. Orders for the spring and early summer of 1906 more than double our previous record. Collections are better than the average and prospects are for good crops upon which depends the prosperity of central and southern Wisconsin. We have in our employ twelve men who have been with us for many years."

**LeRoy Soldiers Monument Dedicated.**

BUFFALO, N. Y., June 7.—The monument recently erected to the soldiers of Le Roy, N. Y., who served in the War of the Revolution, the War of 1812 and the Rebellion, was dedicated in that village on Decoration Day with befitting ceremony. The monument is a very handsome structure and is located on Trignon Park, facing East Main Street. It is of Barre granite and is surmounted with the figure of a marching soldier of solid bronze, especially designed for this monument. The total height is 20 feet. Across the front in large letters are the words: "In Memory of the Soldiers of Le Roy." On each corner is carved a cannon in bold relief. The plinth has some very artistic carving. On the front are cross swords and a laurel wreath; on one side is a cannon and palm branch; on the other a bugle and oak branch; and on the back a musket, canteen and cartridge box. There are bronze tablets on which are inscribed the names of three hundred and thirty-four soldiers who enlisted from Le Roy in the Revolution, War of 1812 and the Civil War. On the east and west sides of the monument have been placed two large cannons which were donated by the government.

**Securing Big Contracts.**

FRANKFORD, IND., June 27.—The Cann-Harshman Monument Co. have recently been awarded contracts for a number of fine granite memorials, both at home and abroad. One of the largest orders is for a \$1,500.00 cottage monument, sold to W. J. DeVol, of Lebanon. This will be one of the finest jobs in Central Indiana. They secured this order in competition with a number of other firms, which proved their ability to compete on all classes of work. The Cann-Harshman Monument Co. carry a fine stock of monuments on their floor and do all of their own lettering and are thoroughly up-to-date.

**Business Extra Good.**

HYNDMAN, PA., June 22.—Mr. George W. Grose, the well known marble and granite dealer of this place, says that business is extra good, and that his Decoration Day trade was the largest he ever had and he did not get out his work by \$1,000.00. The prospects for future business are exceptionally bright, and on the whole Mr. Grose has no complaint to make.

**Plenty of Work at Present.**

BARRE, Vt., July 2.—Canton Bros., the well known quarriers and manufacturers say that they have plenty of work at present and have two large mausoleums under way besides several good sized monuments. Orders are coming in nicely and they have no reason at all to complain. This firm has always enjoyed a good reputation and has built up a fine business.

**Satisfied with the Outlook.**

PHILADELPHIA, PA., July 2.—When the Rock Products' representative called at the monument store of Mr. V. De Dominicis, 1104 South Eighth Street, he found him very busy and quite well satisfied with the outlook. Mr. De Dominicis says that his business is purely local. He has a nice stock of monuments on the floor and employs a large force of men the year around.

The American Statuary Co. has been incorporated at New York City, with \$50,000.00 capital stock. The company will manufacture statues, etc. The incorporators are: C. Zapler, J. Cohen, H. H. Raphael and J. Liebling, of New York and C. N. Leach, of Brooklyn.



**BARRE, VERMONT.**

BARRE, Vt., June 22.—Business here still holds good and everybody is as happy as they can be, so long as the present price condition and lack of organization in this feature of the business continues. Every firm in town interviewed this month reports a greater number of orders on hand than ever before during the month of June, and in many cases there was no perceptible slump at all after Memorial Day work had been shipped.

Some splendid work has gone out of Barre during the past month, but one very noticeable change has been taking place with great rapidity of late. Close competition has driven many firms who have always made a specialty of big work to change their tactics believing, and with good judgment, that there is more money generally in the small monument trade than there is in producing the elaborate structures which have given Barre a large part of its reputation.

Of course there will continue to be as great a demand for this class of work and there will continue to be no trouble in getting it produced by Barre manufacturers, but it is pretty certain that the time is not far distant when the dealer will have to pay more money for expensive monumental work, as this must necessarily be placed with the larger firms and it is up to these latter people to set their prices high enough to cover any possible errors in judgment.

It doesn't take long for a firm newly started in this class of work to learn this lesson. Cutting these big jobs for glory is very pleasant, but it doesn't pay very well. Glory never pays, unless possibly the losses endured on some of these short price big monuments be transferred to the advertising appropriation, and a man can't advertise that way for very long without hearing something drop when it comes to pay day.

**About the Joint Outing.**

The matter of a joint outing has not been decided upon at this time, but it probably will be settled by the time this issue of Rock Products reaches the trade. Several plans are in project, but the most satisfactory one at this time seems to be a trip to the historic city of Quebec, by way of Montreal, taking a steamer at the latter place with a voyage down the beautiful St. Lawrence.

This certainly would be a novelty for nearly all of the Barre and Quincy men. It would insure a thorough social mixing of the members of the two associations and it would be an educational affair from an historic standpoint. At the same time the expense would probably be very reasonable. The committee have the matter under consideration and they are also considering several other locations, including Old Orchard Beach, Maine.

**Well-Known Man Retires from Firm.**

The most important change that has taken place in the granite business thus far this month is the retirement of the well-known National Secretary, William S. Alexander, from the firm of Bugbee & Alexander. Mr. Alexander selling his half interest in the plant and business to his partner, E. A. Bugbee, who will, for the present, at least, conduct the business for himself.

The consideration involved is private. The two partners retain their joint interests in the pink granite quarry proposition at Newark, Vt. This manufacturing firm began business in 1892, starting on a small scale in a barn in the rear of North Main Street. They remained there but a short time when they moved to Mann Bros. plant, on Burnham's Meadow, later moving to the W. A. Lane plant on the same Meadow. In 1899 they joined the southward movement and built a large and thoroughly equipped plant on

Batchelder's Meadow near the Barclay Bros.' plant, and for the past seven years have conducted a very successful business there.

They have been employing two full gangs of stone cutters and the new management will continue to employ the same number.

Both members of the firm have been well known for integrity and hold the esteem of their competitors. The firm has been one of the leading ones in the Barre granite industry. Mr. Alexander has perhaps been more of a leader among the members of the Barre Granite Manufacturers Association than anyone else, having been for five years president of the association, and being practically the one to whom the success of the National Association is due.

At the earnest solicitation of granite men from all parts of New England he consented, at the organization of the National Association to become the secretary, and during the first year of its existence he was the highly efficient secretary and organizer with headquarters in Boston, until last March, when the work having been well started he returned to his own business here in Barre.

Mr. Alexander will be connected with the Boutwell, Milne, Varnum Co., as their representative. The choice of such a man shows the quality of judgment that has put the Boutwell, Milne, Varnum Co. where it is to-day, and they are exceedingly fortunate in being able to attach such a man as Mr. Alexander to their executive force. Mr. Alexander's headquarters will be at the main office of the company at Barre.

**Erect Notable Monument.**

One of the most important monument dedications this month took place at Woodbury, N. J., where the Red Bank soldiers monument was unveiled by the citizens of that county. The day was a general holiday in the county and an immense crowd of people was present at the ceremonies on June 21. The monument was cut by Young Bros., of this city, and was set up by the expert monument setter, Matthew Haley, of Barre. The monument consists of a granite shaft with a twenty-four foot square base.

The total height is 65 feet, surmounted by a statue of a colonial soldier standing at parade rest. It is one of the most notable monuments that has gone out of Barre in recent years.

The George Stralton Granite Co. have enlarged their business office facilities by the purchase of a building on South Main Street adjoining their cutting plant. This building is being remodelled into offices and will be used for the business management, while the office building in connection with the plant will be used by the cutting plant superintendent.

**Will Erect Buildings of Barre Granite.**

There is a strong probability that during the coming year work will be commenced on two creditable granite buildings in Barre. One of these will be a public library and the other will be a Federal building, upon which latter assurances have been given that an appropriation will be made by the government in the very near future. It is the hope of all and the expectation of many that these two new buildings may start a boom in Barre granite for building purposes.

**Visit Pink Granite Quarries.**

A party of men including H. G. Kotten, of New York, E. A. Bugbee, George B. Milne and William T. Colder, of this city, recently took a trip in Mr. Milne's automobile to the great pink granite quarries at Newark, in the northeastern part of the state. Those of the party who had not previously visited the locality were greatly astonished at the possibilities shown for getting out pink granite for building purposes. This is the property owned by Bugbee & Alexander, and also that owned by the Flint Granite Co., which adjoins it on the same mountain.

Here is the dissolution notice sent out by E. A. Bugbee and W. S. Alexander, dated June 20: "The partnership heretofore existing between E. A. Bugbee and W. S. Alexander, doing business under the firm name and style of Bugbee & Alexander, granite manufacturers of the city of Barre, in the county of Washington and the state of Vermont, in so far as their business interests in Barre are concerned, has this day been dissolved by mutual consent, W. S. Alexander retiring from the firm. E. A. Bugbee will carry on the business conducted by this firm in his own name, and will also pay all of the debts owing by said firm and collect all of the moneys due the same.

Alderman Frank H. Burke, of Burke Bros., left this month for a several week's business trip to New York, Philadelphia and among the retail dealers in the western cities.

#### Awarded Big Contract.

Marr & Gordon have been awarded the contract for the granite to be used in the new Syndicate Trust Building in St. Louis. There will be about \$10,000.00 worth of polished granite used in the entrance to the building. The building itself, which is to be sixteen stories high and covers nearly a whole block, is to be of steel construction and fire proof throughout. Work has already begun in clearing the site where the new building is to stand, and it is estimated that a year will be necessary for its construction.

The cost being about two million dollars. Henry E. Roch, of St. Louis, is the architect of the building and Hill & O'Meara the general contractors. Mr. Hill is Royal Treasurer of the Scottish Clans. The contract for the granite was let to Marr & Gordon by John Grant, of St. Louis.

In Caledonia county court this month the case of State vs. James Duncan, et al, in which the labor union at Hardwick was brought up on a charge of conspiracy to prevent non-union men from carrying on business for themselves was not pressed by the State's attorney. The grand jury found a true bill in June, 1905. The case went to the Supreme Court on exceptions and the case was sent back to county court.

#### Held Annual Meeting.

The annual meeting of the stockholders of the Barry Granite and Quarry Co. was held a few days ago when the following directors were elected: O. N. Canton, W. A. Kinzie, D. A. Perry, A. A. Sargent, Frank Cragg and William Cole, of Barre, and J. W. Goodell, of Burlington. William Cole was elected treasurer and Millard A. Baldwin, of Portland, Me., clerk. A report was made by the directors for the five months in which the quarry has been under its present management.

In this time the company has sold granite to the amount of \$9,537.36. Received royalties and rentals to the amount of \$835.00 and incidentals \$24.40. The company has made a net profit for the five months of \$2,083.95 and proposes to install an air compressor plant this summer. A dividend of 4 per cent has been credited on the books on all stock of record on April 1, and a further dividend of 2 per cent on all stock of record July 1, to be paid August 1. The outlook for the future of the company is most encouraging, according to the report of the directors, which concludes with this statement: "We believe that with judicious management the company can pay its 2 per cent dividends regularly hereafter and in a short time pay up those that have already accumulated."

Two exclusive granite contractors, Messrs. Hamilton, of New York, and Brett, of Boston, were in Randolph recently with N. L. Sheldon, a Boston lawyer, to meet A. H. Beedle, of Randolph, and examine the granite ledge on the Beedle farm. The color and quality of the stone greatly pleased the gentlemen, who were of the opinion that it exists in sufficient quantity to make it a valuable quarry. They are anxious to open up the ledge, which has been uncovered for some distance, but not blasted. It is probable that the quarry will be opened soon. The granite is white and of somewhat finer grain than the well known Bethel granite. It will be used for building purposes.

#### New Granite Organization.

Another granite company has been formed in Barre and incorporated under the name of the Barre Medium Granite Co., with a capitalization of \$50,000.00. The subscribers are Joseph O. Adams, Fred H. Andrus, Ernest A. Drown, Albert A. Sargent and A. M. Morrison, all of Barre. The purpose of the company is to quarry, manufacture and sell granite, and for the purpose of buying quarries.

M. Hurley, of Oneida, N. Y., a well known retail monument dealer has been in town this month placing orders with local manufacturers.

#### Work of Vandals.

A most cowardly crime was committed one night recently at the granite plant of L. G. Rizzi, where some person, or persons, entered the shed and mutilated probably beyond repair, about \$1,500.00 worth of partially finished monuments. The perpetrator of the deed entered by climbing

over the big door between the stock yard and the cutting shed, which, in summer, is left open at the top.

All the other doors were locked when Mr. Rizzi went to the plant in the morning, except a small door in the opposite end which can be opened only from the inside. Some of the ruined stones had been practically finished, while others lacked considerable of being done. Every monument that was anywhere near finished was ruined.

On some of them scotias were clipped; on others corners knocked off, in places where they could not be repaired. On stones where there was carving, the most delicate parts seemed to take the fancy of the intruder. On other jobs the letters were pounded down. Mr. Rizzi says the job does not look as though it had been done by anyone who knew how to cut stone, for in every case the work is done in a most ragged fashion, as if a hammer or some blunt tool had been used.

The value of the ruined stones reached to over \$1,500.00, but some of them can be cut down and used again, so the actual loss will not be quite so much. The intention of the depredator were undoubtedly to destroy every monument in the shed. Mr. Rizzi has been in the business in the old Young Bros. shed only a few months and he will have the sympathy of the entire trade. This is not the first instance of a crime of this nature in Barre, but it is the most extensive.

Quite a serious accident happened at the quarry of Milchee & Hodley this month when David Frasier received a broken arm and severe, but not fatal bruises. A new derrick was being set up and Frasier, who was derrickman, was assisting in the work. The mast toppled and fell before it could be properly guyed and Frasier was caught beneath it.



MONUMENTAL DESIGN WHICH CAUSED LAWSUIT AT BARRE, VT.

An organizer of the Quarry Workers' Union was sent out from Barre this month and organized branches of the Union at Fitzwilliam, Troy, Milford and Marlboro in New Hampshire, and Weston, Fitchburg and North Chelmsford in Massachusetts. He is at present organizing the quarries in Rhode Island and Connecticut.

A quarryman at the Boutwell, Milne, Varnum quarry was seriously injured a few days ago by getting in the way of a block of granite. He was standing on a rock while it was being split, when one part fell, pinning him to the ground. On the same day a stone cutter at the plant of the Bessey Granite Co. was beneath a stone when it slipped from the chain and fell upon him. He was seriously injured.

Michael Pembroke, of Middlesex, is the defendant in an infringement suit brought by Whitcomb Bros., of Barre, who declare that their patent right has been interfered with by Pembroke. The wheel which Whitcomb Bros. complain of is manufactured at Wrightsville, just outside of Montpelier. The orator asks for damages and also for a certain amount on each polishing wheel manufactured, and the profit on the same.

#### Of Interest to Granite Men.

A case of great importance to the granite manufacturers of Barre has just been brought in the United States Circuit Court for the district of Vermont. It is John W. Crier, of Green Island, N. Y., vs. Alexander Innes, of Barre, and William Marr, administrator of the estate of Alexander Cruikshank, of this city, for alleged interference with patent rights in a monument design. The suit claiming infringement. In 1897 a patent was granted to William H. Young, of Troy, N. Y., to run fourteen years. Later the patent was assigned to Crier, the orator in the Barre suit.

Prior to the assignment, however, Young had brought suit against Dennison Daley for interference with patent rights on the design, in the United States Court in Northern New York, winning there and getting a final decree also in the United States Court of Appeals, and receiving award on account of damages and violation of the patent.

Now Crier brings a similar suit against Innes and the Cruikshank estate, claiming a similar infringement, and asking for an injunction restraining the defendants from using the design or any part of the design. He asks that all the monuments in the defendant's possession said to have been made by the defendant from the design, be destroyed or turned over to the defendant to be destroyed. He asks \$250.00 for every monument of that design or "colorable imitation" for all profit above the cost of manufacture, and lastly, damages.

It can easily be seen that were a decision favorable to the orator to be awarded that a large amount would be involved, because the orator claims that many monuments have been made from the design. In reply to this suit, the defendants claim that Young was not the original designer and inventor of the pattern, and that monuments were made according to it long before the patent was issued to him.

Arguments will be made before the next term of circuit court in Vermont, both in the interference suit and the injunction proceedings. John W. Gordon and Richard A. Hoar, of Barre, will argue for the defendants, and Charles A. Maurer and Frank C. Curtis, of New York for Crier. The design over which the suit arises is of rather peculiar pattern, having two bases, a die and cap. On the larger vertical sides of the die is a central arch extending almost to the top, with space for the name. The suit is the first one of this nature in connection with the granite business here.

#### Made Agents for Plug Drill.

The Pitkin Supply Co., of 259 Atlantic Avenue, Boston, have been appointed sole agents in Maine, New Hampshire, Rhode Island, Massachusetts and Connecticut for the Ertle & Blisson plug drill bit. The firm have these drills for sale or will license manufacturers or quarry owners the right to make them for their own use.

This is the California invention which has met with so much success in Barre. The bit is made square instead of round and cuts very much faster than the round bit heretofore used. The claim is made that it will cut faster without the use of a blower than the round bit will cut with the blower. Another claim made for them is that it is cheaper to manufacture them.

Stephen & Gerrard report plenty of work, among the jobs they have on hand being three very good sized mausoleums.

Littlejohn & Milne have put in at their quarry this month a complete air plant including a new Sullivan air compressor. The quarry is in much better shape than ever before and Mr. Milne is highly elated over the prospects for the summer and fall.

The complete and up-to-date column turning machinery of the I. W. Bates Co has been installed at the plant of Littlejohn, Milne & Odgees Co., and it constitutes one of the best turning plants in the country. The shed is one of the largest and best equipped in Barre, and it gives them splendid facilities for taking care of all classes of round as well as square work.

#### Test by New Drill.

W. H. Pitkin, New England agent for the Thos. H. Dallett Co., has been in town this week to introduce a new plug drill recently invented and produced by this company and called the improved Dallett plug drill. The results were highly satisfactory to all concerned. In the test made at one of the quarries of the Consolidated Quarry Co., they cut 4 1/4 inches in fifteen seconds and made a record. The drilling was done by Robert Arthur in the presence of Mr. Pitkin, John W. McDonald, president of the Consolidated, and John G. McLeod, formerly one of the owners of this quarry.

The Ryle & McCormick Co. had booked about \$6,000.00 worth of new business on the day the Rock Products man called on them. One was a 27 ft. shaft monument and another shaft job 35 ft. high. This latter is a very elaborate structure. The second and third bases are polished, the die and third base elaborately carved with festoons. They are also cutting a sarcophagus monument which is a duplicate of one cut by them a year ago and is for the same lot. The bottom base is 9-6 and the die is hollowed out to receive one casket.



About the New Pink Granite.

George B. Milne, one of the most successful granite quarry owners in America, is highly elated over his investigation of the pink granite quarry land at Newark, Vt., owned by Bugbee & Alexander, of Barre. Mr. Milne stated in an interview with the Rock Products' man that it certainly is very far ahead of anything he has ever seen as a granite proposition. Mr. Milne went up there in company with E. A. Bugbee, H. G. Kotten and W. T. Calder. They spent two days there in going over the entire territory. Bugbee & Alexander own 500 acres, over 200 acres of which Mr. Milne says is the finest quarry land he ever saw. The stone is almost identical with the famous pink granite of Milford, Mass., and Mr. Milne says that according to his best judgment it can be quarried at a cost of less than 15 cents a foot f. o. b. cars.

The property is eight miles from Island Pond, with a splendid railroad grade, ten miles from East Burke and fourteen miles from Lyndonville. Mr. Milne says that there is sure to be something doing there within a very short time.

C. S. Howell, of the retail granite firm of D. J. Howell's Sons, of Easton, Pa., has been in town this week placing orders among local manufacturers.

One of the best outlooks in Barre among the younger firms is that of the Barre Medium Granite Co., recently capitalized at \$50,000.00, and composed of successful business men in Barre. The officers of the company are: F. H. Andru, president; J. O. Adams, vice president; E. A. Drown, treasurer, and A. M. Morrison, manager. Mr. Andru is superintendent of the Barre & Montpelier Power & Traction Co. Mr. Adams is superintendent of the Barre and Montpelier branch of the C. V. railway; Mr. Drown is a successful druggist and real estate owner of Barre. Mr. Morrison is one of the pioneer quarrymen of Barre and is a first class quarry superintendent. Mr. Morrison had charge of the opening of the dark quarry of Jones Bros., and was employed for many years at the Boutwell quarry, Wetmore & Morse and E. L. Smith quarries. He hoisted the first stone that was ever lifted by steam power in Barre 18 years ago next November, and fired the first battery that ever exploded a blast in Barre.

This was nineteen years ago at the E. L. Smith quarry. He has had a most thorough training in the quarry business. The quarry consists of ten acres of light and medium quarry land lying on the side hill adjoining the quarry of Littlejohn & Milne and not only contains a splendid quality of granite but it lies in such a way that it can be quarried at very small expense and in blocks of any size.

The quarry was opened fifteen years ago by John Brown, from whom this company recently purchased it. They have just finished putting in an entire new equipment that gives them a chance to do business in a most up-to-date and satisfactory manner. They have built a splendid new engine house and office, and installed a new Sullivan air compressor, a 60 h. p. boiler and a 20-ton hoist built by Whitcomb Bros.

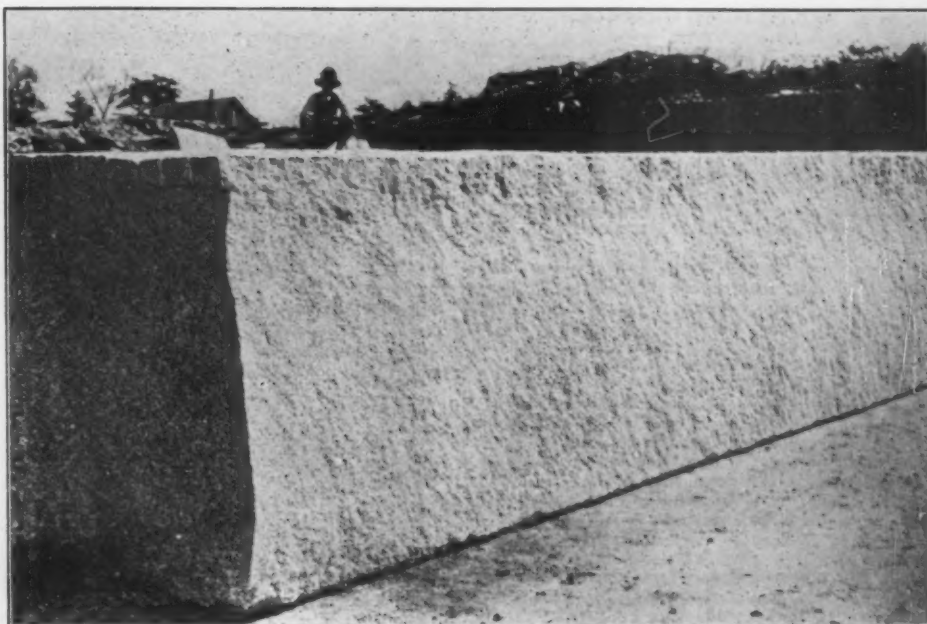
With this equipment of course are included, plug drills, channellers, etc. Their derrick facilities are sufficient for their present needs, but they expect to put in another large derrick later in the summer, and will issue \$5,000.00 more stock for that purpose. They are now employing fifteen quarrymen and are rapidly getting the quarry into the right sort of shape to do business.

Will Double Their Capacity.

The Consolidated Granite Co., of Winston-Salem, N. C., write that they are receiving so many replies to their advertisement in Rock Products that they have already begun arrangements for doubling their capacity.

They are marketing the celebrated North Carolina blue pearl granite, of which they are the sole producers. It has no rival, being in a class distinctively its own by virtue of its handsome, rich color and the remarkable contrast between the lettering and hammered work and the polished surface. Their catalogue containing many beautiful designs will be mailed to any one who writes to them; also a sample of the dark blue or light blue pearl granite.

Mr. G. W. Patterson, the secretary and treasurer, in writing, says: "We have four cars booked for Brooklyn, three of them polished work. We also have orders from Philadelphia, Newark, Trenton and other Eastern points. Chicago is showing up nicely as is the entire West."



VIEW OF A QUARRY LEDGE SHOWING A BEAUTIFUL RUN OF CLEAR STONE AT NORTH CAROLINA GRANITE CORPORATION'S QUARRY, AT MT. AIRY, N. C.

Purchases Granite Quarry, Will Add Equipment

RICHMOND, VA., May 21.—J. Henry Brown, proprietor of the Capitol Granite and Marble Works, writes us saying:

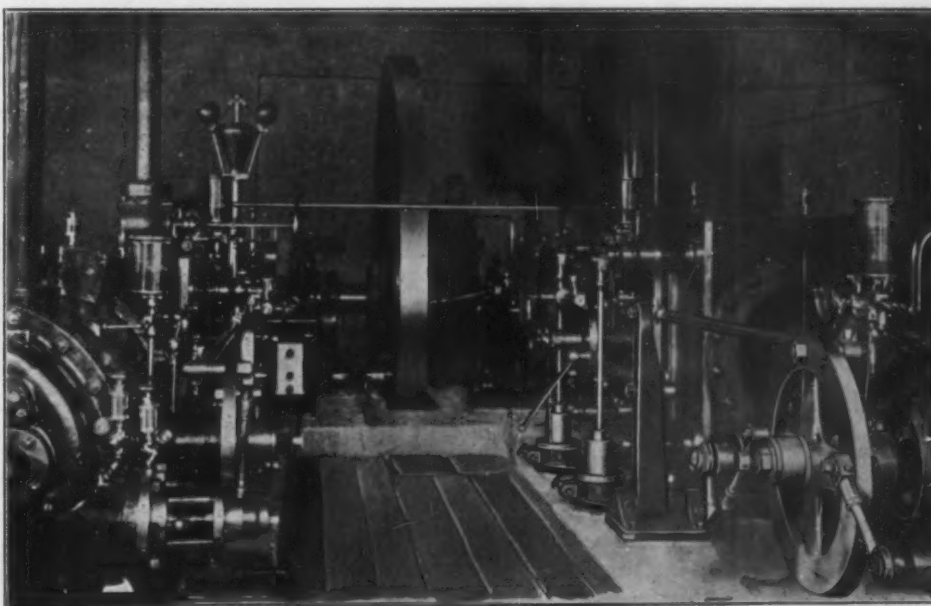
"The entire property of the Richmond Granite Quarrying Co. was purchased by myself last week and will be operated in conjunction with the quarries I possess on the adjoining property. This gives me a very fine quarry property consisting of about 115 acres, 60 acres of which are practically stripped and ready for the drills. The product of these quarries is a gray granite, free from iron; a hard, free working stone, axing up very white, and polishing with a good gloss. The darker grades show a good contrast between the cut work and the polish. In a very few weeks we will be in shape to furnish comparatively large orders on short notice. We have been getting out stone right along, but have been handicapped by lack of proper equipment, which we are remedying as fast as possible, and lack of transportation facilities (cars) on part of railroad. Regarding the stone business outlook in this section, if the calls for our product is any indication, will say that it has never been so favorable as at present. Our crushing plant is taxed to its utmost present capacity with ten times the amount turned down through inability to furnish same. We will install two more crushers as soon as our arrange-

ments are complete, which will relieve the congestion somewhat. We are fairly swamped with orders for curbing, flagging, paving blocks, crushed stone, building stone, monumental, dimension and random stock. We have three boilers, six derricks and crushing plant equipment at quarry now, are adding 125 horse-power to our power plant, two crushers to crusher equipment, steam driven duplex compressor and air plant complete, and four large steam derricks. Our tracks are being extended to end of the quarry property—about three-quarters of a mile more trackage with spur tracks, etc.

"To sum up, we have an elegant stone for all classes of granite work. Business is fierce in its proportions, the outlook is fine for the future, labor and material is high and scarce, and we are moderately happy."

The Forbes-Craig Co., of Quincy, Mass., have incorporated to manufacture and sell granite in various forms. The capital stock is \$20,000.00. The president and treasurer and clerk is Forbes Craig.

The Potomac Granite Co. has been organized at Augusta, Me., and will quarry and deal in granite, etc. The capital stock is \$500,000.00, none of which is paid in. The officers are: President, G. R. Hadlock; treasurer, W. L. Lee.



THE SULLIVAN CROSS COMPOUND COHLES AIR COMPRESSOR—NORTH CAROLINA GRANITE CORPORATION, MT. AIRY, N. C.

## MOUNT AIRY GRANITE.

(Continued From Page 3.)

product had created throughout the country. Active steps were taken to provide modern equipment shortly after the corporation acquired control of the property and the equipment throughout both the quarries and cutting plant has been provided of the most modern type that could be secured so that now the plant is capable of taking care of the largest building operations of the country.

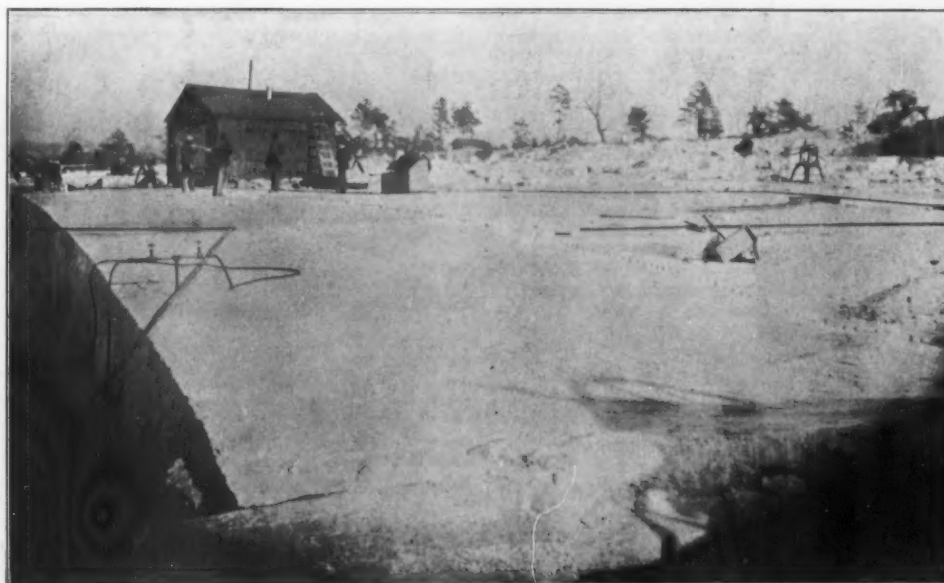
The quarries consist of a homogenous formation of granite covering two-thirds of a mile in length and about one-third of a mile in width. This deposit forms a hill in itself and is all exposed stone. The stone is even in color and texture and the same grade of fineness extends from the very topmost ledges down to the greatest depths. There are forty acres now open and to get off at a distance and view the operations one sees a vast army of men scattered in all directions carrying on the quarrying operations in its various stages. Although they have been taking granite from this immense hill for years there is no perceptible change in its face and the probability is that no one living to-day will see this gigantic deposit of granite exhausted. One beauty about the operations is the fact that the more granite there is quarried the easier it is to secure. Owing to its fine texture this granite splits very readily and can be quarried in any size, the only limit being the capacity of the railroads to handle it. Although 1,200 to 1,500 cars of granite have been taken from these quarries every year their capacity has never been pushed and no job is too big for them to handle, for no quarry in the United States has the facilities for turning out granite in quantities such as the North Carolina Granite Corporation.

No expense has been spared in equipping the quarries with the latest modern appliances, many of them having originated with the operators of these quarries.

The elevation of the stone permits the handling of all stock by giant cableways, which operate by gravity, the railroad sidings being located at the base of the deposit. Eight of these cableways, each of eight tons capacity, are employed to convey the stone from the quarries to the cars. These are distributed at regular intervals all over the face of the quarry. The stone is hoisted to a height necessary to clear the obstructions and then by its own weight slides gracefully along the cableways to the bottom of the hill where are located the cutting sheds and finishing plant. Some of it is loaded directly on cars, thus saving quite a considerable item of expense in handling.

These cableways are operated by independent steam hoists furnished by the American Hoist and Derrick Co. For conveying stones weighing more than eight tons to the railroad cars an incline is used, which enables the company to handle blocks up to the carrying capacity of the railroads.

A storage basin of a capacity of several million gallons has been constructed for furnishing the power plant with its water supply, this also being a gravity system.



SOLID BED OF GRANITE EVEN AS A DANCE FLOOR—PIPES TO THE LEFT CARRY COMPRESSED AIR FOR OPERATING DRILLS—NORTH CAROLINA GRANITE CORPORATION'S QUARRY, MT. AIRY, N. C.

For the purpose of keeping the quarry clear of refuse a gyratory stone crushing plant is operated. The trucks for conveying the waste stone from the quarries to the crushing plant are drawn by a 25 h. p. traction engine.

Unique methods are employed in the quarries for forming the ledges, compressed air being used extensively for this purpose, as was fully described in a recent issue of *ROCK PRODUCTS*.

A cutting shed has been erected 360 x 65 feet. This building has been designed with special care as to the health of the men as well as their safety while working. Both ends and one side of this building are so constructed that it can be thrown open; thereby permitting plenty of fresh air and ventilation. A railroad track enters the shed at one end and continues the entire length of the shed along one side. While this takes up considerable floor space it is the unique point in the designing of this building, which allows all stones to be carried back and forth without carrying them over the men's heads. The main floor of the cutting plant has been raised so that the floor of the railroad cars and the floor of the shed are on a level.

A 20-ton Pawling & Harnischfeger 4-motor electric crane equipped with a 5-ton auxiliary hoist is used for handling the stone in this shed. The electric plant consists of an Ideal compound engine direct connected to a 100 K. W. Bullock generator of 220 voltage. Compressed air is used throughout the cutting shed and quarries and for furnishing the necessary air a Corliss cross-compound two-stage air compressor of 2,000 feet capacity of free air per minute was designed and built especially for this plant by the Sullivan

Machinery Co., of Chicago. A 6-inch air main is used to convey the air from the compressor to the quarries, several miles of piping being required to cover the entire workings. Two Heine water-tube safety boilers, each of 211 h. p. are used to supply steam for the main power plant.

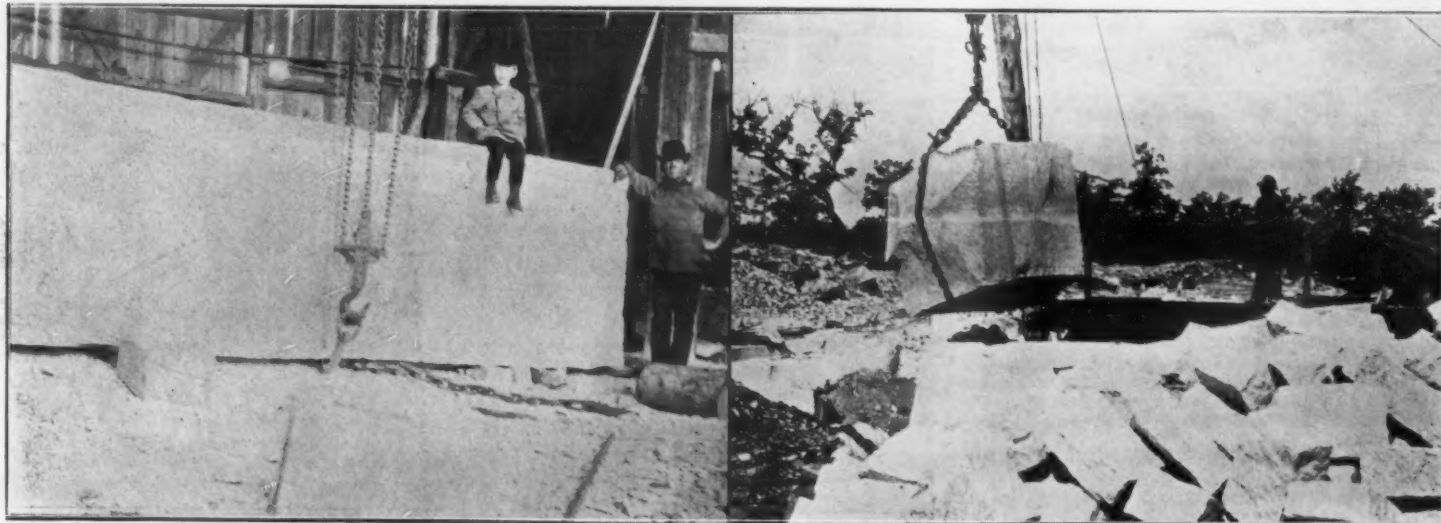
Sixteen surfacing machines are used in connection with the cutting plant, which is also thoroughly equipped with the smaller pneumatic tools and appliances. The coal for the boiler supply is unloaded into bins from an elevated siding, thus eliminating all hand labor in handling the coal.

A well equipped machine shop is operated in connection with the plant, which takes care of the repair work to the tools and equipment.

The die shown in the illustration is one of four which were quarried here and which when finished will be used in the Brooklyn end of the Williamsburg bridge. These four dies will be surmounted by a statue of George Washington. There are not many quarries where four such large dies can be secured.

Some of the largest shafts in the country have come from these quarries. There are several quite large ones at the entrance to the Interstate Cemetery at Claymont, just outside of Philadelphia. Five of them are 25 feet long and 4 feet square at the base tapering up to 3 feet 6 inches square, two are 20 feet high and two more 17 feet high.

The stone is a white granite of a medium fine grain, very even in its texture, free from iron and other injurious ingredients, thus making it a very desirable stone for buildings, mausoleums and large monuments. There is not another quarry in the country that can produce as much stock of unlimited size and fine quality, upon short no-

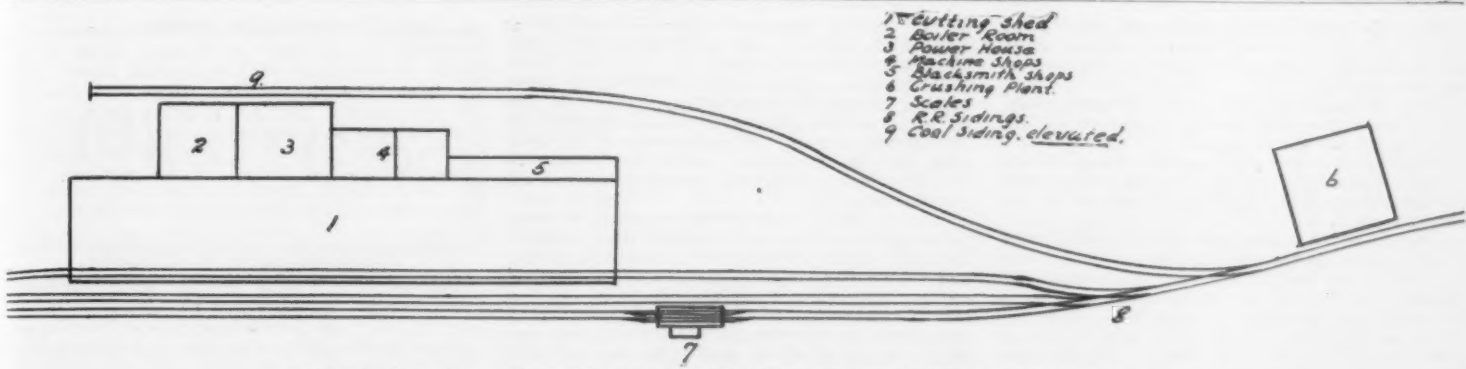


PLATFORM STONE OF PINK GRANITE JUST AS IT WAS TAKEN FROM THE QUARRY, 15 FEET LONG, 4-3x9 IN. WHEN FINISHED.

PINK GRANITE BLOCK TO BE SHIPPED TO WESTERLY, R. I., BEING TAKEN OUT OF THE QUARRY AT GRANITE QUARRY, N. C.

BAIFOUR QUARRY CO., SALISBURY, N. C.





GROUND PLANS OF CUTTING SHEDS, ETC., NORTH CAROLINA GRANITE CORPORATION, MT. AIRY, N. C.

## QUINCY, MASS.

tice, as the Mount Airy quarries. Thin platforms of any dimension and shafts, monoliths or columns of extraordinary dimension can readily be secured.

The general offices of the corporation are located at the quarries, Mt. Airy, N. C., with branch offices in New York, Philadelphia, Norfolk, Cincinnati, Chicago and St. Louis.

Mount Airy, as its name implies, is located about 1,500 feet above the sea level near the base of the Blue Ridge mountains. The town has a population of about 5,000. It is the marketing place for a large area of surrounding country, is well supplied with wholesale and retail mercantile establishments, churches, schools, etc. It also supports a well-equipped system of electric lights and water works, thus making it desirable as a home for mechanics, especially as the quarries are located only about one and a quarter miles from the town.

## A New Field for Pulverized Granite.

BANGOR, ME., June 18.—H. F. Hanson writes us: "There is nothing new here except that a company has been formed to work a potters' clay bed a mile away. The pulverized granite mixed with clay makes a very hard, tough ware, which takes a high degree of heat. The owner of this quarry is getting old and wishes to sell. An enterprising young man with small capital can capture this market, making wainscoting, polished columns and all ornamental work."

## Conditions With Quaker City Operators.

PHILADELPHIA, PA., June 16.—T. & J. Dolan, 314 South Twenty-fourth Street, who make a specialty of polishing marble and granite, say that owing to the adoption of polishing machines by many of the other local handlers of material, that the season has not opened as prosperous as they should like to have had it.

Mr. O. Moosbrugger, 1005 N. Third Street, marble and granite dealer, was found very busy, as is his usual custom, and he advises that the season finds him full up with business in all his branches.

The large yard of Mr. Geo. Rowe, at 733 South Broad street presented the appearance of a granite quarry in itself. Mr. Rowe says that he has all this season had all the work, especially granite work for building purposes, that he could take care of and indications are that the wave of prosperity would continue.

At the yards of Jacoby & Son, 2025 Market street, both of the firm were absent, but their representative reported good business in all their lines, with the outlook tending in the same direction.

The old established firm of A. J. Finney & Son, at 531 North 12th street, are receiving their share of the present prosperous season and the same condition of affairs was noticeable at the yard of John Clarke & Son, at 1531 and 1533 North 12th street.

Mr. Burnwell, of the firm of Law & Burnwell, 210 S. 24th St., had nothing new to report, except that business was extremely good so far as his firm was concerned, and that this same state of affairs was applicable also to Messrs. J. K. Friedley & Son, wholesalers, with quarries at Manchester, N. H., and from which firm a great deal of their material was furnished.

QUINCY, MASS., June 30.—The general trend of business in the granite industry here, during the month just passed has been good. Just prior and up to Memorial Day of every year the granite trade reaches its highest point. What Christmas Day is to the department stores and merchants generally, Memorial Day is to the manufacturer of granite monuments. No other locality in the country deals so exclusively in the articles of cemetery adornment as can be found within the borders of this city.

Hence, for the first six months of every year the energy of quarry owner and manufacturer is bent toward the timely shipment of memorial pieces fashioned from the best granite that the world has thus far produced. Then, or as soon as the bulk of Memorial Day orders has been shipped, ensues a lull, which at the present is less noticeable than in former years. There is consequently no prolonged depression in business this year and a large summer season's work is well under way.

The local manufacturers have had another run in with organized labor, and at one time it looked as though said contention would result in another tie up of the industry. The business agent of the local branch of the union has made himself obnoxious to several small manufacturers. As a result, one manufacturer had the walking delegate summoned into the criminal session of the district court for the alleged intimidation of workmen. The plaintiff in the case answered to the name of John M. McDonald, of the firm of the McDonald Granite Co., who caused the arrest of Thomas J. Rogan, the union's business agent. Both sides were represented by counsel. After a lengthy hearing, in which it was brought out that Rogan went to the McDonald Co.'s yard and told several of the union men employed there that the firm was on the unfair list. The men quit work and the firm's business was crippled thereby.

In his decision, Judge Avery, after ordering Rogan discharged, said that it was apparent from the evidence that Rogan went to the McDonald yard, as an agent of the union to deliver to the union men employed there a message from the union, and that the men left work without any intimidation. He therefore acquitted him and ordered his discharge.

It is understood that McDonald's attorney will proceed against Rogan under a civil process.

The vote for the location of headquarters of the Granite Cutters' International Union was made known here at the present headquarters June 5. The same was the result of a vote taken all over the United States and Canada during the month of May. It is said that there has never before been such interest displayed among craftsmen. The next move of headquarters will be for a term of five years, or perhaps be permanent, instead of two years as formerly, and New York City or Washington, D. C., would extend a cordial welcome to the heads of the union. A majority vote is needed and in the first ballot Quincy was leading with New York and Washington, D. C., close seconds. A new election was called June 17 and the result will be known about mid-July.

## Will Erect Attractive Fountain.

A fountain, the gift of Mrs. Harry Weston, a wealthy resident of Beverly, Mass., will be erected in that town in the near future. It will be constructed of Windsor, Vt., granite and will be cut and polished in this city. From the design the job will be an elaborate affair, and contain

some ornate carving. A. Malnatti, of this city, has the contract for the entire job, while the Quincy Column Turning Co. will do the turning and polished work. The fountain should be ready for dedication by fall. Little & Brown, of Boston, are the architects.

A. M. Dean & Co., and James N. White & Sons, of this city, figured on the Elk's memorial to be erected in Harrisburg, Pa.

A number of granite cutters who left here a few weeks ago to work upon the new cadet building at West Point, N. Y., have returned to this city. They report a hold up on the government building at West Point on account of quicksand being found on the site of the foundation.

Finn Hogan Frawley, of New York City, and Lee Lawrie, sculptors of this city, have received the contract for the entire decorations of the new cadet building which will be erected at West Point, N. Y. The contract calls for 52 panels which will depict the history of militarism from the early ages up to the present time. They have engaged a studio on Hancock street, this city, and have completed 14 of the panels.

Henry H. Kitson, sculptor, of this city, has been awarded the contract for the Collin's Memorial to be erected in Boston, Mass.

The local electric light and power company has nearly completed the new sub-station in West Quincy which will prove a boon to granite men in that vicinity.

M. C. Monahan, of West Quincy, is installing a new Ingersoll-Sargent air compressor with a capacity of 177 cubic feet. A new and commodious building will house the compressor and a 50 horse power motor.

Bergbauer & Perry, at their large plant on Willard street, are adding many improvements. They are installing new and latest improved pneumatic tools and have other improvements to make during the summer. The firm report a busy season and are constantly adding new customers, as their first class work warrants the addition of new and retention of old customers.

B. & G. Monti are cutting the stone for the new entrance to the \$100,000 addition to the local high school. The granite is medium Quincy and will be replete with ornate carving. This job with a number of monumental orders will keep the firm busy for several months.

R. J. Teasdale, the well known dealer in polishers' supplies, reports a good business among these necessary adjuncts to the manufacture of monuments. Mr. Teasdale is well and favorably known in the trade on account of his honest dealings. He has been catering to this branch of the trade for years and has built up a lucrative business.

John Horrigan, sculptor and statue cutter, has shipped the statue for the Shevlin Memorial to be erected in Saratoga Springs, N. Y. The monument was erected by Harrington & Mallory, of Saratoga Springs. The statue is a work of art and represents "the Madonna of the Stars." It is a trifle over life size and is cut from blue Westerly granite.

## Ships Immense Block.

T. F. Mannex has at last succeeded in shipping his 45 ton block of granite to Barre, Vt. The delay in shipment was caused by the refusal of the different railroads to convey the granite to its destination on account of the insecurity of bridges. The difficulty in freight has been eliminated and the block is now at its destination. Upon the successful quarrying of this block credit must be given to Alex. Clarke & Co. who saw that the rigging was in perfect running order before the block was raised from the 250 foot quarry hole.

Birnie & Diack are putting a new steam hoist at their busy plant on Columbia street. Alex. Clarke has the contract for installing the machinery and rigging.

Tripp & Jenkins have dissolved partnership. Jas. H. Jenkins will continue business at his model plant off Centre street.

John R. Richards has returned from Florida where he has been engaged several weeks erecting memorials to former Boston people who are interred there.

John E. Sprague, the local agent for the Laffin-Rand powder people of Wilmington, Del., is out in a natty rig for the delivery of orders. The wagon is a substantial affair equipped with a brake and in every way adapted for the long hauls to and from the quarries. The wagon is provided with a cover and shows the company's name in striking letters.

Williams Bros., over on Totman street, report a busy season. They have lately added a new derrick to their plant.

Richards & Richards, of Centre street, are busy upon a liberal supply of orders for summer shipment.

Matthews & Co., of Glencoe Place, have dissolved partnership. Mr. Matthews will continue to do business at the old stand.

Ernest Bizozzer has lately completed a prosperous spring season and has already under way a number of orders for summer shipment.

John Q. A. Field, of the firm of Field & Wilds, has been to Maine on a business trip. He reports orders plentiful both at his quarry and cutting sheds.

Alexander Howie & Son, Totman street, though scarcely two years in business, have built up a profitable trade. The firm has a model plant equipped with every appliance for the speedy and careful fulfillment of orders.

The Quincy Quarries Co., upon orders from the United States circuit court, will hold a Master's sale of all their property upon the morning of July 9.

The Saturday half holiday is in vogue since the commencement of June. The cutters, by an arrangement of time throughout the week have provided for this without any loss of time to either employer or employee.

D. E. Cameron's yard is stocked with work of medium size. To date he has had a very prosperous season and should the fall and winter seasons prove as good as the spring and summer work he will have no weighty objections to offer at the outcome of the year's work.

John L. Miller, who is always on the alert to get the best results from the local granite has hit upon a novel plan which is bound to bring good results. He has lately made use of raised polished letters upon a hammered surface and in the best of granite the use of the contrast between dark polished letters and the light hammered surface is marked and favorably commented upon.

#### Should Get Better Prices.

There should be a concerted effort upon the part of local granite men to raise the price of the finished product. For several years past the quarry owner, polisher and lumber merchants have raised their prices, but to equal this no effort has been made by the manufacturer to boost the price of his product. If price cutting could be eliminated from the trade the cost of the finished material would be raised to its proper level. Already the majority of work taken is barely at the day wage rate, and in some instances jobs have been taken at a loss. It is a detriment to the trade to have actions of this kind continue, for in most every instance where work is taken too low a bungling, patched and doped piece of work is substituted for the right article.

#### Public Building for Quincy.

Mayor James Thompson received this morning the following telegram from Congressman McNary, in Washington, D. C.: "Public building for Quincy is assured, after years of hard work. Congratulate citizens for me." The building will cost \$80,000.00, and the supervising architect has promised to commence work at once. The location has been purchased by the government several years ago at the expense of \$12,000.00.

The old Mitchell granite plant north of the Quincy Adams depot is advertised to be sold at public auction July 11.

M. J. Connelly, a former resident of this place, now secretary and treasurer of the Michigan Granite Co. is stopping a few days in this city.

Stanford White, the noted architect, who was murdered in New York by Harry K. Thaw, was well known to the older granite men of Quincy,

having been a frequent visitor to this city at times when building jobs in which he was interested were being cut here.

The directors of the Granite Railway Co. have declared the regular semi-annual dividend of two per cent., payable July 16, to stock of record June 30. Superintendent Anderson reports the company both in quarry and sheds as rushed. In the latter some exceptionally large jobs are under the hammer.

Casna & Cicconi give every evidence of prosperity at their up-to-date plant in South Quincy. A recent visit saw some very excellent carving under way, the majority of same being done up on the home granite.

P. O'Brien is busy both in the retail and wholesale lines. Mr. O'Brien has his business eye upon every department of his busy plant and nothing but the best workmanship and material is allowed to pass from his yard.

Forbes Craig Co., of this city, filed a certificate of incorporation June 14, under the laws of Massachusetts. Capital stock \$20,000.00; 200 shares at \$100.00 each. Directors: Forbes Craig, president and treasurer, and Forbes A. Craig. The company has lately installed a new 50 horse power electric motor.

William T. Shea, the paving king, means to enjoy life the coming season, having provided himself with an automobile. Mr. Shea sells the majority of paving cut in Quincy which in a year amounts to over a million blocks.

The firm of Milne & Hector, in South Quincy, have cut and set a quantity of retail work during the spring season. During a recent visit to their plant some costly work of excellent design in Quincy and Westerly granite was in process of construction.



OLD RED QUARRY, OF THE RED BEACH GRANITE CO., RED BEACH, ME.

The Tide Water Trap Rock Co. have all their machinery installed and are beginning to market their prime stock.

Joseph Carabelli, of Cleveland, O.; Jas. H. Jenks, Jr., West Dennis, Mass.; Alexander Frazer, Mansfield, O.; C. G. Schleiter, Freedom, Pa.; C. A. Safford, Greenwich, Conn.; Mr. Fuller, Nashua, N. H., and T. Nickerson, Provincetown, Mass., were among the dealers to visit the trade.

Returns from the two shipping depots for the month of May show the total shipments to be 15,759,921 pounds. This is an increase of over three million pounds over the April returns. Quincy Adams forwarded 7,319,300 pounds, while West Quincy, including the Quarry Railroad, sent 8,440,621 pounds. Total 15,759,921 pounds.

#### Making Nice Improvements.

St. Cloud, Minn., June 6.—The St. Cloud Granite Works will build extensively this summer and sheds for the stone cutters and polishers will be raised which will give place for a large number of workmen in addition to the men now at work there. The cutting and polishing sheds to be constructed will be 140 feet by 40 feet, and work will commence soon in building the sheds. They will be right west of the Osseo track, near by where the present buildings of the company are now located. The building of the sheds is a certain sign of prosperity of the company, which is now sending more granite out than ever before.

The Edward MacLane Marble and Granite Co. has been organized at Chicago, Ill. The capital stock is \$25,000.00. The company will quarry and manufacture. Edward MacLane, David Goshin and Frank Alder are the incorporators.

#### Enjoying Nice Business.

FAITH, N. C., June 30.—Peeler, Barne & Co. write us regarding conditions with them: "The prospects here for granite work this summer is very bright. We are shipping from one to two carloads of granite every day. We have one of the largest quarries in this section. Building stones and street curbing is our specialty and we keep a large crowd of granite cutters working all the time to keep up with our orders."

#### Granite Becoming More Popular.

GRANITE, OKLA., June 18.—The Oklahoma Granite Co. say: "We have just set up our forty-ton derrick, and can handle almost anything in the rough granite line. We have a polishing mill and accessories on the road and will soon be ready for manufacturing. We have a force of ten cutters now at work, and the way orders are coming in we shall need more soon. Business is booming in this locality and all the quarries and plants are crowded with orders. The dealers and contractors are just realizing that we have a beautiful polishing and a fine building granite."

#### Southern California Granite Quarries.

LOS ANGELES, CAL., June 30.—Southern California furnishes some very superior granite which is used extensively, both for structural purposes, as well as for sculptural and monumental work. Some excellent granite comes from San Diego, furnished by quarries that are located near that sea coast city. The supply is practically inexhaustible. The rock from these quarries is of superior quality and a great part of it is used for monumental work in San Diego, Los Angeles and many other points in southern California. San Diego granite is very dark in color, the grain is fine, and it is compact and heavy. On an average this stone weighs all the way from 10 to 25 pounds per cubic foot more than any ordinary granite. It is extremely obdurate, and for that reason is not a favorite structural (building) stone. Few, if any varieties of granite takes a finer polish, or offers greater resistance to elemental wear. Even the justly world-famed Barre is not superior in these respects.

The San Diego quarries are very accessible, being near railroad transportation. No deep work is necessary; the ledges generally lie far above the surface, and the labor of quarrying is thus greatly facilitated, and carried on much more rapidly and economically than at a great many other quarries.

Large quantities of this stone are shipped away to Oregon and Washington and other northern points along the Pacific Coast; also to central and northern California. For general monumental and fine, finished, sculptural work San Diego granite is regarded among dealers and workers as the peer of any Eastern grades. The stone is not only susceptible of taking an elegant finish, but is singularly free from spots, blemishes and flaw-cracks.

At Corona, some thirty-five miles eastward of Los Angeles, are located several granite quarries. The principal owners of these ledges are Mr. H. Meyer, and the Lane Bros., of Los Angeles. Corona granite is all first class stone for building purposes and monumental work.

At Colton, some forty miles from Los Angeles is located a marble quarry from which a good deal of stone is shipped. Among dealers, architects and builders Colton marble does not stand very high. Very little, if any of this marble is used along sculptural lines in California. It is generally of a rather dull, cloudy color, and cutters claim that it is difficult to make fine work out of this stone, even structurally. However, a good deal of the Colton marble is used as an interior building material. Much of the stone was used in the Monadnock block, a large and costly San Francisco structure that was finished very shortly before the great disaster there. It stood just next to the Palace Hotel. The Monadnock stood both shock and fire test fully as well as any of the first modern buildings of San Francisco.

In a comparative way it may be stated that the granite furnished from the southern parts of California is in no respect inferior to the same kind of stone coming from the Madera County quarries, or from the Rocklin granite quarry, in the central and eastern part of the State. They are competing materials, but there is really little, if any choice. Of course the sandstone produced by the Colusa County quarries stands unsurpassed by any similar stone found in California. Its superior grade is unchallenged by the best experts.



# Quarries.

## INDIANA OOLITIC STONE.

Everybody Busy and the End Not Yet in Sight—More Figuring Being Done and Preparation Being Made to Take Care Of

## THE INCREASING BUSINESS.

BEDFORD, IND.

There is no cessation in the activity at Stone City. Even the Fourth of July did not put very much of a halt in the operations although a great many of the operators would be only too glad if they would cut out holidays, especially since they are so busy. It was a little hard for the men to get back to work on the 5th as there was a large crowd went down to Mitchell on the Fourth to a street fair.

The situation is practically the same as it has been for some time past. While all the quarries and mills are loaded to the guards with orders they are still figuring on new business and the end is not yet in sight. There is usually a lull about this time of the year but the difference has not been noticeable this year.

It is interesting to talk to some of the old operators in the district, those that have watched the industry grow from nothing to the present gigantic proportions, to hear them tell of the first house erected in New York out of Bedford stone which, by the way, happened to be old Commodore Vanderbilt's residence. This was built of blue stone from the old blue hole, and retains its color even to this day. Now there are a great many large buildings in New York erected of oolitic stone, in fact some of the largest there are built of that material. One of the very first large buildings to go up in New York was the Manhattan Life, built of buff stone. However, the largest of all the oolitic stone buildings in New York is the Metropolitan Museum of Art. This took 500 cars of stone for the interior and exterior, and is all of buff.

It is hard to get an interview or even an expression of opinion from any of the large operators at this time. Busy, busy, busy, is all you hear until you wonder if there ever was a time when the Bedford district was quite as busy as it is now. There is one thing certain, at no time in the history of the operations in this district has there been so much stone shipped within the same length of time as there has been during the past spring and summer.

When Rock Products' representative called at the office of the Perry-Mathews-Buskirk Stone Co. he found the fair haired little stenographer all alone. She said that Mr. Nat Joiner left for the quarries at 7:30. We learned, however, from other sources that everything at the P. M. B. Co.'s quarries and mills were in nice shape and that they were busy up to the hilt but still able to figure on new work.

At the office of the Climax Stone Co. Mr. R. F. McKinley said that while they were very busy they were still able to take a few small orders just to fill in between the big ones.

Mr. C. S. Norton, of the C. S. Norton Blue Stone Co., and who, by the way, is interested in several other companies in the district, said that he had nothing to report that was really worth mentioning, but the situation was practically unchanged and that while they were pushing things to their utmost capacity they still managed to squeeze in an order. Mr. Norton had just been presented with an elegant little Shriner pin, and he was in a quandary as to whether to give the pin back or take to wearing four-in-hand ties so as to accommodate the pin, as every one knows Mr. Norton is partial to small bow ties.

Mr. W. N. Matthews talked interestingly of the

operations in the district and said he had been in the business ever since he was a boy except that time when he went to the front during the civil war. His father, John Matthews opened up the first mill in this section at Ellettsville in 1862, which is really the upper edge of the oolitic district, the stone not being quite so deep there. The operations are still continued at this point by Mr. Matthews and his brother under the firm name of Matthews Bros. Mr. W. N. Matthews operates a quarry in the dark hollow district.

In speaking of the relative values of the buff and blue stone, he said many preferred the buff as it was thought to hold its color better. He said the upper strata in nearly all the quarries was buff, but the lower strata was nearly always blue and the further down you got the darker blue the stone became. However, in the blue hole all the stone is blue.

At the office and mills of the Brooks-Curtis Co., they were working their plant to the limit. They have a number of large buildings on hand and Mr. Brooks said it was pretty hard to get a breathing spell. He was figuring on some large buildings when the Rock Products' man called and said he saw no chance for a let-up at the present time.

The Indiana Cut Stone Co. is the style of a new concern recently organized with a capital stock of \$75,000.00. Several of the large operators in the district are interested in this new company and the directors are: F. D. Norton, C. S. Norton and Robert Reed. They are erecting an immense mill on the outskirts of town, but it is not far enough along to give any idea of the scope of its operations. When Mr. Robert Reed was asked about



FURST-KERBER CUT STONE CO.'S NEW QUARRY, BEDFORD, IND.

the new enterprise, he stated it was too early to discuss it, but that in due time he would give us the full particulars of the matter for publication.

## BLOOMINGTON, IND.

Mr. B. F. Adams, of the Monroe County Oolitic Stone Co., when asked about his operations, said he was too busy to look for news, and that things were practically the same as they had been for some time past. He stated they had all they could take care of conveniently, and believed that every other man in the district was in the same fix.

Mr. Fred Matthews, who is in charge of Matthews Bros.' operations near Ellettsville, and also quarries north and south of Bloomington, said his concern was one of the oldest in the district, and that they had all the business that they could conveniently take care of, as nearly all their product was shipped direct to New York City to supply the wants of their customers there. Mr. Matthews is also connected with the Esapire Stone Co., whose quarries and mills are in the Clear Creek district, and also with Johnson & Matthews, whose quarry is in the Harrodsburg district. Like all the others, these two concerns were very busy. Johnson & Matthews having several large contracts on hand, one of them being the Harvard Law School at Cambridge, Mass.

The Hoadley Stone Co. is the wonder of the district. Mr. J. W. Hoadley, who is the head of the concern, came to this district from Champaign, Ill., where he had been in the cut stone business

and which place he still continues as a branch shop. He said they bought their machinery February 3, and had their mill in operation exactly sixty days from that date. Before a wheel was turned they had \$20,000.00 worth of contracts on hand and they are now shipping about six carloads of cut stone per week. They operate the largest lathe in the district. Two of the largest jobs they have on hand at present are for Champaign, Ill., his old home. One is the Auditorium for the University of Illinois a \$100,000.00 edifice. One feature of this building will be the six immense columns 27 feet in length. He also has the contract for a \$75,000.00 church in which there are to be used \$18,000.00 worth of cut stone. Mr. Hoadley buys his stone from all the quarries in the district and said his reason for doing so was that the stone varies from time to time in the different quarries, that one year he was able to get the best stone from one district and the next year he would get it from another as the quality varied considerably.

Wm. Blair was busy superintending the erection of the immense new mill for the Bloomington Cut Stone Co., which he hopes to have in operation within about thirty days. They have been delayed on account of the tramway lumber getting lost in shipment. However, he has a tracer out and he is looking for it every day. This will be a very modern plant in every respect and promises to be the most up-to-date establishment in the whole district. Part of the machinery is already in. They have one planer and two gangs set up and the engine and boilers are now being put in place. They will start with three gangs, a diamond circle saw and two planers, but have room for more equipment as soon as the business justifies it. Mr. Blair is seriously considering opening up a quarry and has his eye on one in the district. He said the style of the quarry company would in all probability be the Bedford and Bloomington Quarry Co.

Carter Perring, manager of the Crescent Stone Co., whose quarries are in the Hunter Valley district, said they were having all they could do to take care of their orders and that they were pushing things to their limit.

At the offices of the Central Oolitic Stone Co. Mr. R. G. Mahan said they were keeping very busy but that they had no large contracts on hand at the present time. However, they have enough to keep six gangs, three planers and one lathe going all the time. He says the Central Oolitic Stone Co. is a corporation and not controlled by any set of individuals as stated in the last issue of Rock Products, and that the statement that Mahan & Co. controlled the company was erroneous.

Mr. Jos. Campbell, of the Southside Stone Co., said there was nothing new except that they were busy and had all they could do. They have nothing extra large on hand but plenty of work and plenty of figuring. He stated that the usual lull that comes about this time of the year was not so noticeable as formerly.

Mr. R. H. Carpenter, who is a manufacturer and wholesaler of oolitic monuments, says he has been pretty busy but that he had let all his men off for the week owing to the Fourth of July celebration. He ships rustic work made of oolitic stone all over the United States and also does a nice local business in granite and marble, as he says the people in his locality, strange to say, prefer other kinds of stone.

## Adding New Equipment.

The Carthage Superior Limestone Co., Carthage, Mo., which recently opened its quarries, has just installed some new machinery, including a huge 300 h. p. Corliss engine and a double gang saw. The installing of the new engine and the additional gang saw has necessitated an enlargement and some changes in the building. A wing has been added to the mill into which the machine shop has been moved. In this shop the company does 75 per cent of its own repairing. The new gang saw will handle a stone 10x10x6½ feet in size, and is one of the biggest gangs in any of the quarries here. The mill is now equipped with two standard gangs and three double gangs. M. F. Viernow, who has been superintendent of this quarry since it first opened, resigned recently, and C. H. Carter has succeeded him. Mr. Carter has had much experience in stone work, having formerly operated quarries at Liberal, Mo., and at Marble City, I. T.

The company's business has very materially increased since beginning its operations, as is evidenced by the above news. The outlook is very bright and they look for a good demand for their stone.

### Quarry Products Too Cheap.

It is a fact, which is making itself felt to every operator in quarrying stone, that the price of stone is really below its actual value. With the advance in the cost of building materials of all kinds stone has not kept the pace it should have done. Stone is increasing in general popularity as a building material; it is being used in concrete and street building work at a phenomenal rate, aside from its large use in structural work.

The cost of proper quarrying equipment, which has become an absolute necessity to every live operator, has advanced until the necessity of obtaining a more profitable price for the output is essential to the quarrymen's future success. This advance can and should be made in justice to the quarrymen, who have thus far been very conservative in their prices. It is true that their profits have been fair, but this is due entirely to the fact that the volume of business done has been large enough in the aggregate to make that possible.

This does not suffice to offset the argument for a better price for quarried stone. There are few industries which have attained more importance than this within a few years. The quarryman must work industriously during the few months when the weather will permit his operations, and unless he obtains sufficient returns for his labors in that time, he suffers a great loss during the idle winter months.

He should not be unreasonable in his demands, however, but it is only fair that his returns justify his labor and expense. This will be conceded by the most arbitrary, and the operators should no longer hesitate to act accordingly.

### A Criticism of Oolitic Stone.

A short time ago the Indianapolis *Star* published what purported to be an interview with W. Knox Taylor in which he gave out a number of observations with regard to Indiana oolitic stone which, if they came from Mr. Taylor, must have been uttered in a careless moment. Oolitic having been used in public buildings for nearly half a century without the possibility of complaint on the part of the most fastidious with regard to disintegration or anything approaching thereto, has so well established the reputation of this stone upon its own intrinsic merit and all of this being so well known to every reader of this paper, it is hardly necessary for us to go over the ground at this time.

Mr. Taylor's remarks with regard to the famous monument at Indianapolis are altogether unfounded if we are to trust the verdict of all the experts who are constantly visiting the monument for the purpose of taking especial note of its design, construction and material from which it is built. There are thousands of buildings in the country erected more than a generation ago which bear testimony of the shape of demonstration sufficiently contradictory of the statements published, but Mr. Walter Kessler of the Romona Oolitic Stone Co. of Indianapolis, promptly answered the articles in such a concise and complete manner in the columns of the *Star* that we consider it worthy of repetition here:

#### Defends Oolitic Stone.

To the Indianapolis *Star*:

In a recent issue of *The Star*, W. K. Taylor, United States architect, referring to oolitic stone, reiterates the warning which *The Star* sounded of the damage to the soldiers' monument and other structures which would come from soft coal smoke and the sulphur deposited thereby. With the architect's conclusions, when he confines himself to the consideration of the danger carried by coal smoke, the writer agrees, but the architect is "going some" when he asserts: "If there were no soft coal smoke, however, the process of disintegration would go on. Oolitic limestone is porous and the water carried by the atmosphere enters the pores and causes disintegration."

It seems that the architect is something of a wiseacre, and, like many technical men, assumes expert knowledge on all subjects collateral to his profession. We were wont to point to the old authorities like the late Gen. G. A. Gilmore, U. S. A., specialist on stone, who explained that the great durability of oolitic stone came in great measure from its elasticity; this elastic quality counterbalancing the effect of absorbed moisture freezing. But the architect now tells us why the stone disintegrates, and evidently brushes aside as worthless, if he ever heard about, this elastic quality.

We wish we could compel the architect to exam-

ine exposed ledges in the oolitic district and to explain to us why these ledges, exposed to the elements for ages, show sharp edges and absolutely no disintegration.

The architect is further quoted as saying in reference to a building in this city: "The window ledges are almost rotten in places." One must believe that the architect has been incorrectly reported, because there is absolutely no basis of truth for this statement. There is no oolitic stone in the building in question, window ledge or otherwise, which is "almost rotten," or in any incipient stage of rottenness.

The weight of authority which position or office gives to such talks as Taylor's is considerable, and we have a right to expect opinions which are well considered conclusions of investigation or study. If the architect is correctly reported he can be accused of both carelessness and a lacking sense of responsibility, and might be suspected of having interested motives.

Granite is not affected by sulphurous smoke, but it has absolutely no expansibility, so that a slight heat coming from a fire within or near the building would utterly ruin the walls, as was demonstrated in the Boston fire; whereas oolitic stone, under the same or greater heat, would be undamaged. Weighing the susceptibility of damage from sulphurous smoke against the extreme sensitiveness to heat, it would seem that on the ground of durability oolitic stone and granite should stand equal in the scale.

WALTER KESSLER.

### Prosperous Grindstone Quarries.

AMHERST, N. S., June 26.—Mr. Harris F. Huestis, of the Atlantic Grindstone, Coal and Railway Co., Ltd., has been appointed general manager for this season and has recently taken up his residence at Lower Cove so that he will be present during the summer to personally supervise the work. This has been made necessary by the rapidly increasing demand for the different products of their quarries and mines. Just now the works present an unusually active appearance.

In the grindstone department of the company the quarries and mills are now working full blast. The quarries are in a better condition than they ever were since the present company took hold of them, although this season they have been kept back somewhat by the heavy landslide caused by the heavy rains and frost which put work back about three weeks. This difficulty was overcome about the middle of May, and at that time they began taking out stone, and from then until the last of May they have quarried and finished a large amount of stone at a cost of fifty per cent less than ever before. The future outlook is still brighter, as they are now just getting into the solid reef, where there is but little waste to the stone. The management this year has changed the situation of the derricks, machines, etc., so they can work to the best advantage and still not interfere with steady work by the men, and up to the present time this is a great saving to the company.

Recently, a quantity of stone was shipped to Prince Edward Island and other places. Several days ago a carload of grindstones was shipped to Halifax, one to Boston and another to New Hampshire. They are also loading two other cars for Upper Canada, and one for Providence, R. I.

### Has Sandstone Land.

WINNIPEG, MAN., June 28.—J. D. A. Molson has just returned from a business trip to Calgary, where his examination of the sandstone quarries convinced him that the deposits of the same material and equally as good quality existed on his ranch out on the Bulb Head creek. An expert quarryman accompanied Mr. Molson back from Calgary and it is understood that his opinion as to the quality of the sandstone coincides with that of the owner. The quarries are to be opened immediately and the stone placed on the market.

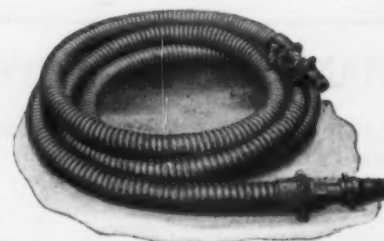
### Will Operate Stone Quarries.

NANAIMO, B. C., June 29.—A company lately organized with ample funds in the treasury has secured from the Western Fuel Co., a lease of land on Newcastle Island, and within a few days will begin installing new machinery of the latest design and will quarry and cut stone for the market of the coast. The company has already large contracts with Vancouver builders and has a market for its output over and above the Vancouver demand.

## Sprague Electric Company

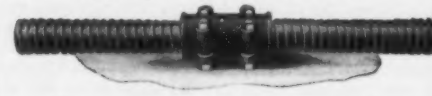
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### Preparing to Operate on Large Scale.

WASHBURN, WIS., June 28.—After lying idle for a number of years the Prentice stone quarries, located just above this city, are to be opened again on a large scale. George A. Bodenscholtz, of Chicago, who has just purchased the Frederick Prentice interests in the quarries, has interested a number of Chicago capitalists who are willing to put their money into the enterprise and go into the quarrying of stone.

The stone in these quarries is considered to be the best of the kind in the United States for building purposes and it is the intention to use five large stone scows and two tugs to haul the stone to Chicago, Milwaukee and other points where there is a ready market.

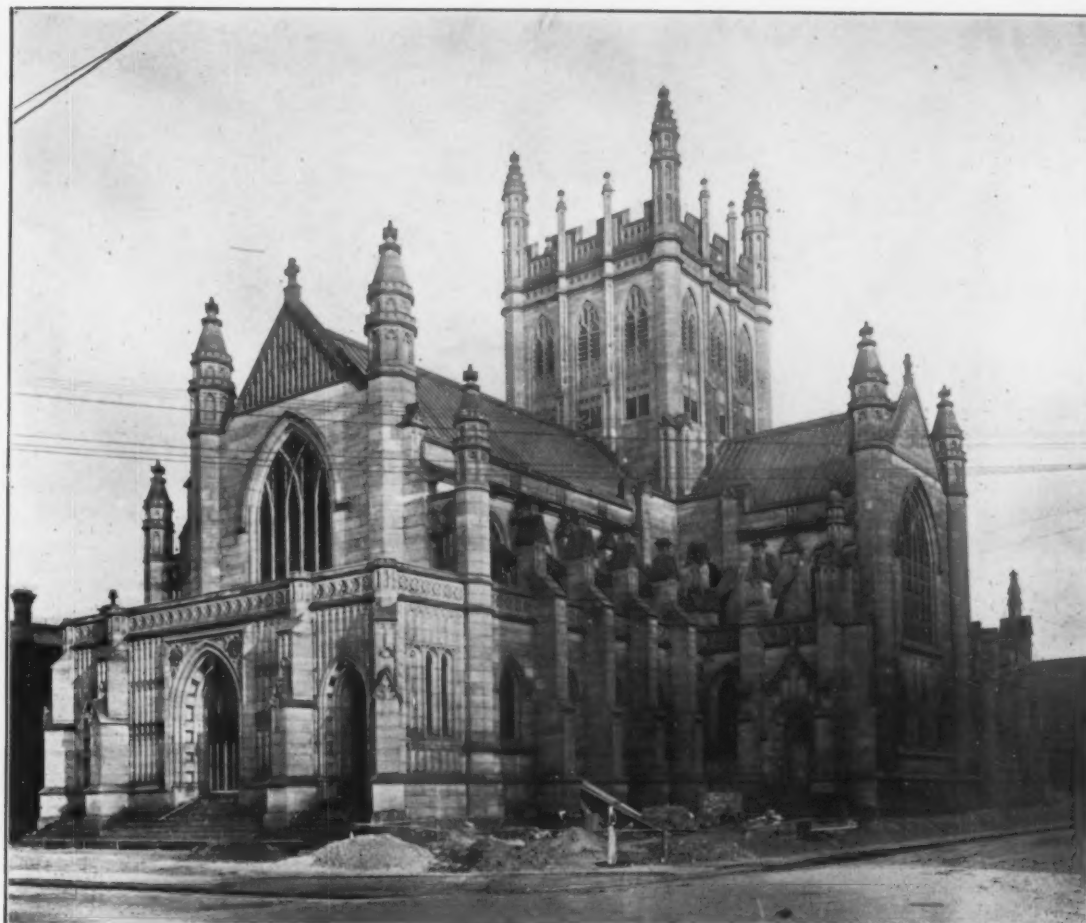
### About Forging Bits.

In forging rock drill bits those for medium hard rock should have sharp chiseled bits. As the hardness of the rock increases, the angle of the bit may be made more blunt and the cutting edge shaped from a straight line to a curve, so as to prevent the corners from being chipped off. There are economies in the foregoing bits to the best advantage with reference to the stone that is being worked especially, which would constitute quite a factor in the whole cost of the quarrying operation, for it costs just as much to work with a bit that is doing very little actual cutting as it does to operate where every blow is cleaving straight into the stone.

The cost for motive power, whether it is for steam or compressed air and the wages of the man working the drill goes on just the same, whether he is idly pounding or whether his tool is cutting properly. A little experimentation on the part of the man who forges the tools is in order in many quarries where the thing is being done in a slipshod manner. It is very easy to find out just what kind of a bit yields the best result, and this should be the pattern for all other bits working in the same kind of strata. Of course in most large quarries, the rock varies considerably, and it is well for the man who operates the drill to change his bit to suit the specific kind of a cut that he is making. The man who forges the bits should have every kind that will be called for, provided to be furnished on a moment's notice.



# INDIANA OOLITIC LIMESTONE



TRINITY CATHEDRAL, CLEVELAND, OHIO.

There is no better example of the exquisite architectural effect that can be produced by the use of Indiana oolitic limestone than in the massive proportions and splendid Gothic lines of this sacred edifice which stands in the center of the beautiful city of Cleveland. The Perry-Mathews-Buskirk-Stone Co., Monadnock Block, Chicago, Ill. furnished the buff limestone for this edifice to J. W. Smith, cut stone contractor, of Cleveland.

Indiana oolitic limestone is particularly adapted to church architecture and many of the most elaborate structures of this country have employed the Indiana stone to great effect. This stone has been called by the greatest architects of the age "The American Portland Stone" after the stone which comes from Portland, England, and was first made famous by Sir Christopher Wren in 1666 by using it for the reconstruction of St. Paul's cathedral after the great fire which destroyed the city, and the splendor of that church edifice at the present time, particularly with reference to the condition of the stone, bespeaks for its American duplicate the same permanent qualification.

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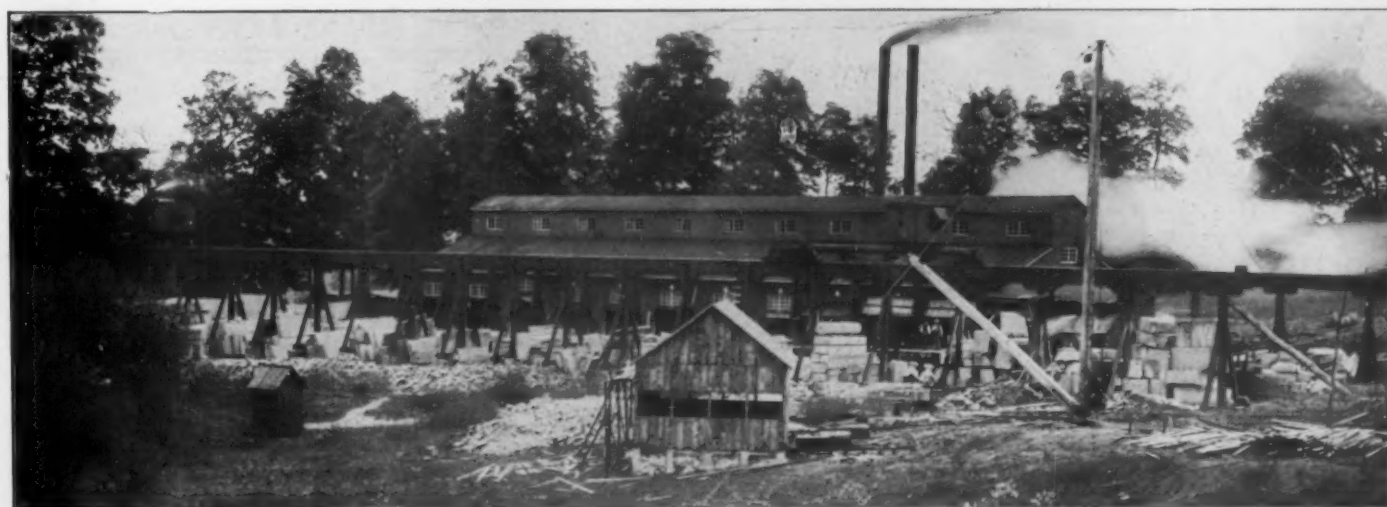
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# From Our Own Correspondents.

## GREATER NEW YORK.

NEW YORK, N. Y., July 5. -The plans for the new twenty-one story Boreel Building and for the twenty-one story addition to the present Trinity Building were filed on June 8, with the superintendent of Buildings, by Francis H. Kimball, architect for the 111 Broadway company, the owner of both edifices.

The new Boreel Building at Broadway and Cedar Street is to be 282 feet high and the enlarged Trinity 280½ feet high. The addition to the latter which is to be built on part of the present Thames Street, is to have a frontage of 68.9 feet and a full depth of 266.9 feet. The Boreel Building will have a frontage of 61 feet and a depth of 272.3 feet. The Boreel Building is to cost \$3,000,000.00 and the Trinity addition \$1,000,000.00.

### Million-Dollar Tabernacle Building.

The thousands of questions that have been asked the car starters and policemen at Thirty-fourth Street and Broadway, for a couple of years back, as to what was to be done with the old Tabernacle church that has been so conspicuously boarded up all that time, are now answered by the fact that plans have been filed with the building department for an eleven-story basement and sub-basement office building, to be erected for William R. H. Martin on that site. It is to be called the Tabernacle Building, after that old church. It is to cost \$1,000,000.00.

### Famous Old Landmarks Along Broadway Undergoing Alterations.

Plans have been filed for making over into a modern office building the old Coleman House, one of the famous old time Broadway hotels, which was latterly known as the new Metropolitan Hotel. The building is at the northwest corner of Broadway and Twenty-seventh Street and is owned by the estate of Henry M. Schieffelin. The facade is to be remodeled by removing the old mansard roof and constructing a series of bays four stories high above the first. A new plumbing plant will be installed and two elevators built. The improvements are to be made for Henry Coon as lessee, and are to cost \$75,000.00, according to the estimate of the architects, Maynicke & Franke.

The five-story building at the southwest corner of Broadway and Eighteenth Street, owned by the Deleplain estate of Paris, has been leased for a long term of years, and is to undergo extensive alterations at a cost of about \$50,000.00. Plans are being drawn by F. E. Perkins and John Forsythe who occupies the adjoining, has taken a twenty-one year lease of the corner structure and will connect the two.

### Another New Fire House for the City.

Fire Commissioner John H. O'Brien opened a number of bids for the construction of a new house for a hook and ladder company on West Sixty-third Street near Amsterdam Avenue. The lowest bid was that of the Thomas B. Leahy Building Co., \$73,300.00. The others ran from \$75,000.00 to \$90,000.00. The specifications call for the completion of the work in 230 days after letting the contract and require a bond of \$32,000.00. Bids were also opened for alterations to the fire headquarters in Brooklyn. The lowest bid, \$13,763.00 was that of C. L. Dooley. The other bids were from \$14,000.00 to \$20,000.00.

Thomas B. Leahy Building Co., are just finishing up the new fire house on Fifty-eighth Street, near Sixth Avenue, and are also building a new ten-story office building on Hudson near Franklin Street. It will be of brick with marble base and Indiana limestone trimmings.

### Death of Well-Known Theatrical Architect.

John Bailey McElpatrick, who was probably the most widely known theatrical architect in the country, died suddenly in his office in the Knickerbocker building New York City, late on Tuesday afternoon, June 5, of heart disease, following an attack of pneumonia.

Mr. McElpatrick designed the vision lines and acoustic plans upon which many of the modern American theatres were built, and he planned more than 100 American play houses. He designed the Knickerbocker Building and theatre. The New York, the Criterion, the Empire, Broadway, Alhambra, Murray Hill, Metropolis, and Hudson theatres, the Harlem opera house, the Grand Opera House, and two of F. F. Proctor's theatres in New York City, and nine theatres in Brooklyn, five in Philadelphia, and five in Louisville, Ky.

He was born near Harrisburg, Pa., 77 years ago, and began the practice of his profession in St. Louis for twenty years, has made New York his home and place of business.

### Stanford White.

Many architects of the city unite in the view that in the death of Stanford White America lost one of her foremost architects. His taste and knowledge in particular, they hold, were unflinching. Walter Cook, architectural member of the Municipal Art Commission, said: "I am only echoing the general estimate of his contemporaries when I place Mr. White among the foremost names in American architecture. His work was distinguished by freedom of conception, a very careful and talented study of proportion and detail, and an unusual sense of what would be beautiful in execution. He was never deterred from doing what he conceived to be the best, either by fear of being thought too original or too little so."

Whitney Warren and Charles D. Wetmore declared Mr. White's influence had spread throughout the country. They added, "unhesitatingly we say that the good accomplished by his work and influence throughout the country was enormous and insistent, not only upon architecture but upon painting and sculpture."

"In his buildings there is a simplicity and purity of line composition absolutely individual. Already there is a 'school'—everywhere one meets with the evidence that his judgment and exquisite sense of proportion and detail are educating the general eye, and bearing fruit in the efforts of his followers to inspire themselves from his works."

"Every interior of to-day also bears his mark, whether it be in a private house or a public building or a museum. He has constructed great buildings, but the influence that was born of him will prove by his following that he was even a greater master than a builder."

"He brought from the palaces of the Old World the best that money could buy and placed these works of art in the best surroundings of our modern civilization. He did more for the education of the American public in decorative art than any other modern artist for teaching popular appreciation of harmony and color in decorative architecture. He, with the splendid following which he created, had done more than any other man who preceded him in this or any other country, to take modern architecture out of the Middle Ages. Among other things, notwithstanding his early training, he soon recognized that small windows and thick walls were not adapted to our climatic conditions and he brought into modern architecture the possibility of sunlight."

### Cutting His Own Tombstone.

Samuel H. Yeaman, seventy-two years old, who is employed in a marble works in Noblesville, Ind., has been at work on his own tombstone at odd times for several years, and he now has it almost completed, says the Indianapolis News. Originally it was a huge granite boulder, picked up on the public square. Mr. Yeaman chipped off a corner, found the quality to be extra fine, and concluded to carve it as a marker for his last resting place. He has been a stone-cutter for fifty years, and he says the stone is the hardest piece of granite he ever handled.

J. L. Wagenaar, of the New England Granite Works, of 489 Fifth Avenue, has started on a business trip to Philadelphia, Washington, D. C., and several points in Virginia.

### Cornerstone Laid for New Synagogue and School.

The corner stone of the new synagogue and school which is being erected by the Montefiore Hebrew congregation on Hewitt place, the Bronx, was laid recently with impressive ceremonies. The synagogue which will be about 50 by 100 feet, is to be a two-story white stone building, with cupolas at each end of the structure facing the street. It is to cost \$50,000.00.

### Etched in a Cornerstone.

A remarkable illustration of the action of chemicals on zinc was discovered recently when Senator Andrew J. Sloper, New Britain, Conn., opened the box in the cornerstone of the First Baptist church, which is being demolished for a modern building. It had been lined and sealed with zinc. A picture of the old church which had been placed in the box, had by the chemicals with which the photo was toned, been reproduced on the zinc lining.

The reproduction is not unlike that of a news half-tone. All the contents were in good condition. The stone was laid in 1869.

C. H. P. Gilbert, as architect, has filed plans for a new six and a half story dwelling to be erected on the property of M. F. Mullane, at 7 West Fifty-first Street. The building will be 25 feet wide and fireproof. The front will be of white granite and red Baltimore brick. It is to cost \$85,000.00 according to the estimate of the architect.

### Monument to Roger Williams.

On the spot where Roger Williams and five companions are supposed to have first landed after banishment from Massachusetts 270 years ago, and founded Providence, a monument of granite with bronze panels and appropriate inscriptions was unveiled on June 13, by the Providence Association of Mechanics and Manufacturers.

The executive board of the Massachusetts State Branch of the American Federation of Labor, has decided to erect a monument over the grave of the veteran labor leader, George E. McNeill. At the last meeting of the council the secretary was directed to immediately send a circular letter to every union in Massachusetts asking an appropriation for the monument.

### A Monument to Barry at Last Assured.

The Friendly Sons of St. Patrick have at last succeeded in getting an appropriation of \$50,000.00 from Congress for a statue of Commodore John Barry, who fought on the water against the British in the Revolution. The Barry statue will be placed in some park in Washington, and when it is finished will cost \$100,000.00. More than \$25,000.00 has already been contributed by Irish societies. With the \$50,000.00 appropriation by Congress, that leaves less than one-fourth of the amount still to be raised. The statue will be designed by Augustus St. Gaudens.

### Work Begun on Big Store for the Bronx.

Work has begun on the construction of what is to be the largest retail enterprise in the Bronx. It will be a department store, covering a plot 75x100 feet at the northwest corner of 163rd Street and Third Avenue. The building, which is to be erected on property owned by Dr. Henry Ruhl, will be of brick and stone construction, five stories in height, equipped with electric passenger and freight elevators. Dr. Ruhl says the building will be ready for occupancy according to present plans, in eight months.

### \$50,000 More Wanted to Reconstruct Sewers.

Engineers of the Finance Department are considering petitions presented by Borough President Hoffman to the Board of Estimate and Apportionment, asking for an appropriation of \$30,000.00 for rebuilding the trunk sewer in Park Avenue at 152nd and 153rd Streets, and of \$20,000.00 for rebuilding the sewer at 149th Street, under the tracks of the N. Y. N. H. & H. R. R.

It is stated in the petition concerning the Park Avenue Sewer that the present sewer at that point has settled and the service demands its reconstruction. Why the cost should be taxed upon the city is not stated in the petition.

Mr. James G. Shaw, of the Clinton Point Stone Co., says business is very satisfactory, keeping up with last year. This company has stone plants scattered all along the Hudson river from Haverstraw up. Their plant just below Haverstraw, where they have been installing new machinery all spring and putting things to rights, they expect to have in operation in another month.

Mr. Shaw in commenting on the Preservation of the Palisades bill, which was passed last winter and signed by the governor, said that while it is true the bill was passed and signed by the governor, that is about all that is true of the many conflicting statements published in the papers since the agitation began. He says in the first place there has not been any quarrying on the Palisades for over two years, and still you do not see any public improvements being made to the landscape along the river either in New Jersey or New York State. There are no quarries today along the Palisades, the quarries are far above

the Palisades, and many of them away inland; furthermore, they are far removed from civilization, and all this talk about the heavy blasting and shaking up of magnificent dwellings is all rot; the nearest dweller can not hear a blast, he is so far away, not alone feel his house rock. A lot of talk of that kind is hatched in the fertile brain of some newspaper men who never saw the quarries in question.

#### Statue to General Fitz John Porter.

The statue of Major General Fitz John Porter, erected through the efforts of the Grand Army, and presented to the city, was dedicated in Haven Park, Portsmouth, N. H., on July 1, this being the anniversary of the battle of Malvern Hill, in which General Porter distinguished himself. The statue was presented to the city by Commander M. E. Long, of the Grand Army post, and accepted by Major W. E. Marvin. The orator was General Alexander S. Webb, of New York, who was a personal friend of General Porter.

#### Two Nice Jobs on Hand Near By.

H. L. Brown of 7 E. Forty-second Street, reports business as very satisfactory. Among the contracts secured recently by Mr. Brown are the Somerset County courthouse, where he will furnish the Alabama marble for the exterior work. The church of the Immaculate Conception at Montclair, N. J., is another; it is to be built of granite and Indiana limestone, furnished by Mr. Brown.

H. L. Brown of 7 E. Forty-second Street, is away on a ten-day vacation, most of which he will spend in Maine.

#### Building Vaults in Other Cities.

Leland & Hall, of 557 Fifth Avenue, report business as very satisfactory. Just now they are doing a lot of vault work. They have just received contracts for vaults to be built in Denver and in Pittsburgh of Barre granite. They have also completed and shipped a statue for Birmingham, Ala., and another for Alexandria, Va., both of Westerly granite. They have just finished a beautiful sarcophagus which they are about to ship to Scranton, Pa.

Mr. Hall, who has been kept busy all year, has just started on his vacation. He has gone to the Maine woods.

Frank H. Matthews, of the Empire Stone Co., of Bloomington, Ind., is in New York on business, and will take in the sea shore over the 4th. He says business is booming out West, but their main trouble is the scarcity of help. They can not get enough men to get out the stone.

Frank B. Gilbreth, the well known builder, is in San Francisco.

Frederick B. Vail, of the American Air Compressor Works, 26 Cortlandt Street, is in Virginia on a business trip and will not return to New York until after the 4th.

H. G. Kotten Co., of 120 Liberty Street, have opened a new factory at 414 Bleecker Street, and are putting on an additional testing room. Business is very good just now and they have no complaint to make. Mr. H. G. Kotten is in Rockton, Me., on business.

The general belief among the workmen is that the upper part of Manhattan and the Bronx are over-built, so far as flats and apartment houses are concerned, especially the latter, on account of the boom in building up-town caused by the operation of the Subway. The number of houses in some districts is greater than the demand at present, and few new houses are being started.

#### Schooner Loaded with Limestone Sunk in North River.

Carr & Ball, the cut stone contractors of Harrison, N. J., had the misfortune to lose a boat load of stone in the North River opposite Franklin Street, on Thursday, June 28. The vessel was a large two-masted schooner loaded with 100 tons of fine cut Indiana limestone of Perry-Matthews-Buskirk Stone Co. While passing Franklin Street the Captain became becalmed. Just then a Norwegian tramp steamer outward bound from Hoboken to Christiana, Sweden, came out of her slip and ran her down. The stone was bound from their yard to Morris Heights for the new Messiah Home, of which Charles Brigham, of Boston, is the architect, and Andrew J. Robinson, of New York, the general contractor.

J. Hamilton Young & Co., have the contract for the stone for the new addition to the Hoffman House. It will be Perry-Matthews-Buskirk Co. Indiana limestone. R. L. Dans is the architect.

McKim, Mead & White are drawing plans for the new Kent Hall, Columbian University. It will be some time yet before they are finished, and bids are asked.

#### SYRACUSE, N. Y.

SYRACUSE, N. Y., July 5.—State Engineer and Surveyor Van Alstine, of Albany, has just awarded a large number of contracts for good roads in Central New York which will keep the crushed stone and material men busy for some time to come.

The amount of building in June in Syracuse this year is considerably larger than that of June of last year according to the building permits which amounted to about \$180,000.00 aside from the state armory which was \$200,000.00.

One of the large contracts to be let soon to the stone men is that of the Presbyterian church at Auburn to cost \$50,000.00.

Charles Thomas, of this city, has the contract for the stone for a new Bell Telephone building which will cost \$100,000.00. He will use granite, Indiana limestone and blue stone. Mr. Thomas also has the testing station at Onondago Valley for the same company which will cost \$50,000.00 and will be built of Indiana limestone and brick. He also has a large addition to the house of W. L. Smith which will be built of Gouverneur marble. Mr. Thomas is now cutting Onondago limestone for remodeling the house of Chancellor Day, of Syracuse University, at the expense of \$12,000.00. He has an \$8,000.00 job of Onondago limestone for the addition to Madison school. Mr. Thomas has just received four cars of Gouverneur marble.

Delaney & Soule, monument dealers have just completed a \$1,500.00 Barre granite monument erected by Dr. F. O. Donohue in memory of his wife. It is of the sarcophagus form surmounted by a large cross. Delaney & Soule have also closed a contract for a large sized monument with Daniel O'Brien to be placed in St. Agnes Cemetery. This is also of Barre granite of hammered work. Trade for the past six months in the monument line has shown a decided improvement over the corresponding period of last year.

The Sanborn Granite Co. carries a large stock of monuments at their yards located near Oakwood Cemetery. The company consists of Geo. and Joseph Sanborn, who started in business here coming from Utica about April 1.

A project some time ago to unite the Syracuse monument dealers into an association to maintain prices and co-operate in other ways, fell through. The best of good feeling, however, prevails among the trade and they borrow and lend in spite of the competition in prices. The tendency this year has been towards more small jobs and less large contracts.

A large amount of marble is received here from the Watertown Marble Co. which has quarries at Gouverneur, shipping blocks to Watertown, where they are sawed up by water power.

The Syracuse Mantel, Tile and Marble Co. have a large contract for marble in the Metcalf building at Auburn and at the Franciscan convent at Syracuse. This company secures much of its marble from Proctor, Vermont, and from Baltimore. It will use a considerable amount of Knoxville, Tenn., marble in the Carnegie Library, Hall of Natural History and Hall of Chemistry buildings at Syracuse University. This company also has the contract for slate at the State Institution for Feeble Minded Children in this city. Upon all state works, the specifications call for green slate in the closets and shower baths. There was a strike at Auburn a couple of weeks ago when the marble men went out in sympathy with others but the trouble has been adjusted satisfactorily.

Stearns & Sons have been working upon a contract for remodeling Roosevelt Hall at Skaneateles using slate, marble and tile. E. J. Stearns, a senior member of the company, has charge of the fraternal parade to be given at Kaneco Carnival in September.

#### THE NORTHWEST.

MINNEAPOLIS, MINN., June 26.—The building season is quieting down as the summer progresses, both because of the change of the season and also because of advancing prices in many lines of materials and scarcity of materials. A number of large structures have been hung up on account of inability to get some certain class of material, and the continued effect was to check building. The higher prices have also resulted in discouraging building. In the past two months there have been a great many jobs of public and private nature figured, and many of them have

had to be refigured, running widely above the estimated cost. Doubtless in part, this is due to the architects' underestimating values from failure to keep posted on prices, and thereby naturally falling below. But the way figures overrun shows that this does not account for all of the increase, and that some of it is due to steadily increasing cost.

A scarcity of competent granite cutters is hampering several jobs which have been under way at different points. Some have been imported from the South, and put to work at St. Cloud, but there is room for more and good men could get work without losing any time on it, for they are at a premium, so much of a premium that many very commonplace workers are given work.

The Twin City Rapid Transit Co., operating the street railway lines in Minneapolis and St. Paul, embedded its rails in concrete, the rails being tied together with tie-rods, and doing away with the use of wood ties to a great extent. After a test of two years this work is all being torn out and creosoted piles are being used at the old proportion, and concrete is put in between the ties.

Cut stone men are enjoying more business than they were a year ago, and about every yard has some work on hand, enough so that all feel fairly well satisfied.

The monument business is being rushed, and deliveries are slow on account of bad roads, and also on account of the shortage of cutters. There are a great many jobs under way which should have been completed and in place for Decoration Day, but were not, to the dismay of the seller and the disgust of the purchaser.

#### FLOUR CITY BUILDING.

Charles S. Sedwick, architect, has completed plans for a new set of buildings to be erected at Stanley, Wis., for the Northwestern Lumber Co., of that place. The office and store building will be two stories and basement, 80x150 feet. The warehouse and depot will be 200x40. The company will manufacture the brick for use in these structures.

J. & W. A. Elliot have the general contract for the erection of a factory for the Roberts Lumber Co., to be located at Columbia Heights suburb. The building will be two stories, of brick and cut stone, 36x140 feet in size. There will be a detached power plant.

Bell & Detweiler, architects, have plans accepted for the girls' dormitory to be erected for Macalister College, in the Midway district. It will be three stories and basement, 80x120, of Kasota cut stone for the basement and first floor, the remainder to be of pressed brick. It will be fireproof construction throughout, with partitions of porous terra cotta. Cost \$60,000.00.

The Hurty-Simmons Hardware Co. has placed the contract for the construction of its new wholesale building at Fourth street and Second avenue North, with a St. Louis firm, the Wooster Construction Co. The building will be six stories and basement, 120x148, of pressed brick and cut stone.

C. F. Haglin has received the general contract for the erection of the addition to the South branch exchange of the Northwestern Telephone Exchange Co., at \$11,000.00. W. B. Dunnell is the architect.

W. S. Hunt, architect, has completed plans for a cracker factory to be erected at Calgary, Alberta, for the Calgary Cracker Manufacturing Co. It will be three stories and basement, 120x112, of brick and cut stone, costing \$35,000.00.

F. D. Orff, architect, has completed plans for a bank building for the Consolidated Bank of Eau Claire, Wis. It will be of cut and dressed stone, fireproof. Cost \$50,000.00.

Frita Magnusson, architect, prepared plans for a brick and cut stone church for the Swedish Lutherans of St. Cloud, Minn., to cost \$11,000.00. J. Nordstedt, general contractor.

Henry Parsons received the contract for the nurses' home for St. Barnabas hospital, 902 South Seventh street, to cost \$16,000.00. E. S. Stebbins, architect.

L. A. Lamoreaux, architect, has plans completed for the apartment buildings to be erected on Grant street and Spruce place, for the Baltimore Investment Co. Foundation work is started. The work complete will represent an investment of \$200,000.00.

Hennepin Avenue Methodist congregation proposes to raise a fund of \$150,000.00 for the construction of a church. It is undetermined whether to build an institutional church or not.



Bids are being taken at Britton, S. D., until July 25 for the erection of a \$60,000.00 court house, from plans by Bell & Detweiler, architects.

SAINTLY CITY BUILDING.

A. F. Gauger, architect, recently completed plans for a modern brick bank building for the Pope county bank of Glenwood, Minn. It will have Bedford stone front, brick walls.

The Y. M. C. A. has approved plans by C. H. Johnston, architect, for the proposed new building, which is to cost \$250,000.00.

The Presbyterian bodies of Minneapolis and St. Paul contemplate raising funds for the erection of a modern hospital in the Midway district.

The Hackett-Walther-Gates Hardware Co., wholesale, contemplates an addition to its building on lower Fourth Street, to cost about \$100,000.00.

The first Methodist church contemplates the erection of a modern church at Holly and Victoria streets, to cost \$25,000.00.

C. N. Lovene received the contract to erect a brick factory for the Park Wagon Stock Co., at St. Anthony Park. Cost \$12,000.00.

The Ryan annex, Seventh and Robert streets, was gutted by fire recently. The building is a six-story brick building with stores below and offices above. It is to be rebuilt as soon as possible.

CHICAGO, ILL.

CHICAGO, ILL., June 30.—A large number of stone yards have been visited in various sections of the city and activity is prevailing everywhere. Most of the yards are well supplied with material from the quarries. In some of the yards, especially those who deal in Indiana oolitic stone have provided themselves with a plentiful stock which enables them to push work on contracts they have in hand. For a time, some months ago, there was considerable complaint about delays in transportation of stone from the different quarries, but now the stone men say that the transportation of stone is reasonably expeditious.

Some complaint, however, is still made about the transportation of stone on railroad lines running to the great stone quarries in some of the Eastern States. Considerable quantities of stone are arriving daily by lake and canal transportation, also considerable quantities of marble and granite. All of the stone men seen were very well pleased with the situation and do not expect any change for the worse until the season closes.

Some little time ago mention was made of the fact that only one stone yard was supplied with ample facilities for heating their yards during cold weather. The yards thus provided, as stated at the time, were those of A. F. Gibson & Co. The credit for ample protection of their men against the severe cold winter should have been given to the Chicago Cut Stone Co., whose yards and place of business is located at 3407 La Salle Street. This is the only stone yard in the city that is amply supplied with heating power which serves a useful purpose during the winter season. The president of this company is Nels A. Larson, and the vice president is Ludvig Bergman. The company at present is working ten to twelve men, but have no large contracts on hand. The force employed, Mr. Larson says, is kept busy and the prospects for the balance of the season, are exceedingly good.

At the yards of A. F. Gibson & Co., 3327 La Salle Street, a good force of men are at work, but no large contracts have been made. Mr. Gibson says the season so far has come up to his expectations and the prospects are good for an increase of business at an early date. This firm, like all other yards in that immediate vicinity uses Indiana stone entirely with which they are well supplied at the present time, with new supplies arriving almost daily.

Mr. John Tait, who has been in the stone business for the last thirty-five years, is one of the best known men in the business. By securing the contract from the new Auditorium Hotel he has made an increase in his force of hands and the work will be pushed forward as rapidly as possible. He is also engaged in furnishing cut stone for one or two other projects which will soon be under way. These contracts, with some smaller ones which he has on hand, will enable him to keep his yards running with a good force of hands during the remainder of the season. His business thus far this

season has been very gratifying to him and he sees nothing ahead but a continuation of activity at least through another year.

The cut stone contractors, A. E. Sward & Co., Thirty-third Street and C. R. I. & P. R. R., near La Salle Street, also forms one of the important stone yards in this vicinity. The yards of the firm are well supplied with stone from the Indiana quarries, but no large contracts are on hand at the present time. They have several jobs on hand, ranging in cost from \$500.00 to \$5,000.00, which keeps their men actively employed. Mr. Sward says business is fairly good and prospects ahead are altogether promising.

In other sections of the city visited the stone yards seem to be busy and in a prosperous condition. At the office of the Anderson & Lundgren Cut Stone Co., 5821 South May Street, business was reported to be fairly good, and while the firm has no large contracts on hand they have a sufficient amount of business to keep their men fully employed. The firm had no special information to give out except that they were well pleased with the present situation and see nothing ahead of a discouraging nature.

The Central Oolitic Stone Co., having an office in the Chamber of Commerce building, report the situation with them as gratifying. They handle Indiana stone exclusively, and say that those who have used their stone express the highest satisfaction as to its qualities. Their quarries are kept busy all the time supplying the particular kind of stone in which they deal and they have no fault to find about transportation facilities.

The Chicago & Naperville Stone Co., 184 La Salle Street, report business good in their line, and the demand for their stone from the quarries at Naperville, Ill., is sufficiently large to keep them busy. Prospects for the future seem to be quite promising.

The Consolidated Stone Co., with offices in the Monadnock building, report business as quite satisfactory and fully up to their expectations. Prospects ahead are good.

The Dearborn Cut Stone Co., offices at Dearborn and 61st Street, had no special information to give out, but say business is good and prospects quite satisfactory.

Perry-Matthews-Buskirk Stone Co., with offices in the Monadnock building, is an old established firm and are well known among the trade. They report business good and see nothing in the way of disaster to mar its prosperous continuance at least for some time ahead.

W. McMillan & Son, Chamber of Commerce building, report a continuance of good business. They have a number of contracts on hand which they are filling as rapidly as possible. The outlook for a continuance of good business is promising.

John Rawle Stone Co., Chamber of Commerce building, is an old established firm and has succeeded in building up a large and satisfactory business. They are kept busy in filling their orders and report prospects good.

The Western Stone Co., of the Chamber of Commerce building, is one of the best known firms engaged in the business. Their business has increased beyond their expectations, and all financial difficulties which they had some experience with some months ago, have been cleared up and the company this season has enjoyed one of the most prosperous since it was established.

The Young Stone Co., with offices in the Chamber of Commerce building, have ample yards located at Forty-third and C. R. I. & P. track. A member of the firm said there was no fault to be found with the present situation. Business good and prospects excellent.

The granite business in Chicago this season so far as all reports go, shows that granite, which is used largely, for ornamental purposes, has been in excess of that for some time previous. The Wm. Grace Co., the firm engaged in building the new county court house, are pushing as fast as possible the finishing of the granite to be used in that structure. A large force of men are at present employed in this work, but it will require some time to complete it.

A number of firms dealing in granite report business in that line as being satisfactory, but that competition has been so fierce as to reduce prices. The prosperous condition of the country generally has created a much larger demand for granite for cemetery uses than has been known before in several years, and the monument men have been having a fairly good demand.

The Wisconsin Granite Co. report business as fairly good and prices reasonably low. This com-

pany obtains all its supplies from quarries in Wisconsin, of which they own several.

Dolese & Shepard Co., who deal in all kinds of building materials in general public use, are also dealers in granite and say the granite business has been fairly good during the season.

The J. H. Anderson Co., with an office in the Chamber of Commerce building, are large dealers in granite almost exclusively for monumental purposes, and report business in granite this year as being unexceptionally good. A considerable amount of granite has been used this season in the interior of the new buildings now going up in this city.

The Western Consolidated Granite Co., Chamber of Commerce building, do a general business in granite, and report business fully up to their expectations.

The Peoria Stone and Marble Works, 204 Dearborn Street, the Davidson Bros. Co., foot of Orleans Street, the Davis Marble Co., 302 Michigan Avenue, and the Vermont Marble Co., located at 570 North Water Street, were all seen but had no special report of general interest to make. A large amount of marble from Eastern and other quarries, has been received here this season, and a good deal of it has gone into interior construction of the big skyscrapers going up in the business district of the city.

The demand for marble for monumental purposes has been very large this year and is likely to continue.

LOUISVILLE, KY.

LOUISVILLE, Ky., June 30.—Notwithstanding the advent of real old fashioned summer weather, building construction continues most actively here. Every day permits for structures of various sizes are issued and there is no doubt but that this prosperous state will continue all during the year.

It is believed that, on account of the continued advance in the price of brick, the use of stone will soon become more general. As compared with brick stone is much superior, both as to appearance and wearing qualities. The growing use of Indiana oolitic stone here is quite noticeable, and the people in this section are showing a greater liking for it as time goes on.

The general report among the monumental men is very flattering, considering the time of the year. They say that this has thus far been one of the best years known in this part of the country. Many of them favor the association idea and would be glad to see the formation of a state organization.

The Peter & Melcher Steam Stone Works report a continuance of prosperity. They have a large number of cut stone contracts which keeps them operating to their fullest capacity. Mr. Ed Peter, in speaking of conditions with them, said that they had plenty of local work. Their plant is now completed and they find themselves in a very much better condition to handle orders. They have sold some nice orders for monuments recently and look for a continuance of good business in this line.

John Diebold & Sons find themselves rushed with orders for cut stone. They have considerable out-of-town as well as local work, and have been awarded some large contracts for stone work. Their large plant and yards give ample evidence of what they are doing. Mr. Andrew Diebold says they have enough work to keep them going to their limit.

The James Clark Monument Co. are continually receiving new orders for high class monuments. The day we called they had received several orders of more than ordinary size, design and cost. Mr. Clark was in a happy frame of mind, and despite the warm weather said business was very gratifying.

The Muldoon Monument Co. say, through Mr. Knoble, said that they had made some nice sales lately. On account of the extremely warm weather all through the South, it was telling on their business in that locality, though they had enough orders to keep their large plant in full operation.

Joseph H. Peter & Co., the well known monumental concern, find the business still as prosperous as it has always been with them of late. Mr. Wetstein reported that the present year was certainly a prosperous one in their line, and he was naturally happy over the prospects for future business.

Jos. H. Gernert says that the monumental business is holding up well. He has been busy for some time and has received some very nice orders during the past few months.

# Marble

## THE KENNESAW MARBLE CO.

We present to our readers this month two views made expressly for Rock Products, which plainly show the scope of the operations of the Kennesaw Marble Co., at Marietta, Ga.

One is a partial view of their back yard, showing slab stock and the other is a partial view of front yard showing the immense amount of bases and die strips carried by them in stock for immediate shipment.

These two views show better than anything else the magnitude of the operations of the Kennesaw Marble Co., and can not fail to impress with the fact that this company is amply able to take care of its customers among the monument dealers, insuring prompt shipments and A1 stock.

Their finishing plant is one of the best equipped in the south and employs about 125 men the year round. While they cut principally Georgia marble they are reputed to be the largest importers of Italian in the South and only last week they received direct from Italy by way of New Orleans five car loads of Italian marble aggregating 400 tons. They also do quite a large amount of interior decorative work and have several very large contracts of this nature on hand now.

This company under the able management of its president, Mr. A. V. Cortelyou, has forged its way to the front rank of the large marble producers of the south. Their plant is a model in many respects and was fitted without regard to expense. One distinctive feature which we would like to lay great stress upon is their machine shop, 75 by 50 feet, in which 6 men are constantly kept busy. In this shop there are kept duplicates of every portion of their immense equipment. The necessity for this is obvious for delays caused by breakdowns are the cause of nearly all of the trouble of the retail monument man. Prompt shipments become an impossibility when the mill has to be closed down for repairs. This is practically an impossibility by virtue of the perfect system of arrangements in vogue in this plant as broken parts are replaced immediately involving only a small loss of time.

The Kennesaw Marble Co., operates 15 gangs of saws and three twelve foot rubbing beds besides the usual equipment of turning lathes, polishers and small rubbing beds. All hammering, carving and lettering is done with pneumatic tools and their work is not only turned out with facility and dispatch but the combination of perfect equipment and skilled workmanship can have but one result and that is first class work.

Monument dealers and users of interior decorative marble all over the country appreciate the value of quick shipments and it has always been the policy of this company to turn out their work promptly, always keeping in mind, however, that every piece of work must come up to the Kennesaw standard of quality.

### Isle of Pines Marble Co.

There is said to be an unlimited supply of marble, in fact about 100 acres, in Nueva Gerona, in the Isle of Pines. About one-half of the property is a mountain of beautiful marble of various colors and textures, varying from the pure white to a marble of color and texture that resembles the famous Quincy granite. This marble can be used for building, monumental or decorative purposes. From tests which have been made it has the resisting power and durability of any marble in the United States. Some of the marble is absolutely pure white, while others show veins of blue and still others have a pinkish tinge. It is free from cracks, the deposits varying from 5 to 25 feet in thickness. It is situated conveniently to the coast and can be shipped with economy all over the country. The wharf from which shipments can be made is about three-fourths of a mile from the mountain. The Isle of Pines Marble Co. has been capitalized for \$300,000.00 at 45 Milk street, Boston, Mass., to work the deposit.

### Demand for Marble in San Francisco.

To the many dealers and workers in marble, the shock and fire proved a very heavy loss. The total damages will reach hundred of thousands of dollars. Very few escaped without some damages; the most of them had everything swept away. More than three-fourths of the marble workers and dealers were totally burned out.

By far the heaviest losers were the Vermont Marble Co., and the Columbia Marble Co., whose buildings, stock and costly working plants were completely destroyed between earthquake and conflagration. The losses of these two firms alone will aggregate many thousands of dollars. It is the purpose of these firms to rebuild, and secure complete operating plants at the earliest practicable date. Smaller dealers and workers, will generally follow the examples set.

In the rebuilding of the city, the demand for marble will be better than ever, and a good and constant market may be confidently expected. All marble dealers, etc., take a very hopeful view of the situation, and are not discouraged or disheartened over the disaster.

### Maryland Marble.

CUMBERLAND, Md., June 24.—Samples of the marble found on the Western Maryland railroad near Union Bridge, Carroll county, according to Mr. Austin Gallagher, Industrial Commissioner of the road, are as smooth and white as costly Italian marble. There is quite a large quantity of it and it is easy to quarry. Some New York people will come down shortly to look over the property with the idea of developing it.

### Will Soon Establish a Mill.

EAKLES MILL, Md., June 20.—The Washington Marble Co. write us as follows: "We are not closed down for any reason, especially not because we cannot get any stone, because we have plenty of stone and easily gotten and are making heavier shipments and doing the best business of our five years' existence. We are becoming better known daily and our trade is extending. We are furnishing the Hilgartner Marble Co., Baltimore, Md., with all the interior marble for the new Walters Gallery and they are doing a remarkably handsome job. We closed down for a few days during the bad weather last winter as it was cruel to ask the men to work in the mud, snow and water. This is how the news regarding our supposed closing down originated. We are establishing a mill, have purchased machinery and the quarry is working. The mill is to accommodate our regular operators when they are overcrowded with work. We have about 40,000 cubic feet of stone on hand at present and can take care of any orders that come our way. Some of the largest buildings in the United States have been built with marble from this point."

### A Southern Marble in the East.

NEW YORK, N. Y., June 16.—The contract for the exterior of the Connecticut Savings Bank has been awarded to H. L. Brown, East 42nd Street, to be erected in Alabama white marble. This marble is not much known in the Eastern market because of the extra cost in freight charges, but its being a 99 per cent carbonate of lime and running a mellow white or cream shade, fine grained and standing almost as much crushing test as Hallowell granite will cause its use where quality and not economy is to be considered.

Messrs. Gordon, Tracy & Swartwout have made a monumental design for this building and bring the marble out for all of its true value. Mr. Moretti, a sculptor from New York, has interested Atlanta capital in Alabama to produce statuary marble. Alabama should develop into the Cararra of America.

### Good Marble Prospects.

LOGAN CITY, UTAH, June 22.—Messrs. Ballard L. S. Cardon, Frank Thatcher, Frank Baugh, Wright, Walker, S. J. Jeppesen, James Larson, Fred Smith, and Sam McKinnon, returned from the head of Logan Canyon on Wednesday evening. They went up to inspect the quarries of the Utah Marble company, so as to agree upon a plan for working them systematically.

They returned feeling very much pleased over what they saw. They say that there are unlimited quantities of the marble, and they uncovered a big ledge of another variety than those they have exhibited. It is very light in color—almost white—and very handsome, they say.

Messrs. Walker and Baugh stayed up there to begin work on the opening up of the new quarries, and next week four or five other men will join them.

The houses, sheds, and other belongings at the old Montrose Mill site were purchased from Montrose and the canyon headquarters will be there.



PARTIAL VIEW OF BACK YARD SHOWING A PORTION OF THEIR SLAB STOCK YARDS AND PLANT OF KENNESAW MARBLE CO., MARIETTA, GA.

SECTIONAL VIEW OF FRONT YARD SHOWING AMOUNT OF SAWED BASES AND DIE STRIPS, CARRIED IN STOCK FOR IMMEDIATE SHIPMENT.



**May Enlarge Plant.**

CANTON, GA., May 26.—We present to our readers a view of the plant of the Cherokee Marble Works, manufacturers and dealers in Georgia, Italian and Vermont marble monumental work. They have been in the business at this location for about five years and their trade extends all over the southern states. They are at present putting in pneumatic equipment throughout and contemplate enlarging their plant before next season. The firm is composed of Messrs. J. B. Hawkins and J. A. McLain, who divide the duties of the office and the shop, both being peculiarly adapted to their work and to this fact, more than any other, is attributed the remarkable success of the firm.

**A Large Shipment of Marble.**

KNOXVILLE, TENN., June 11.—The Evans Marble Co. furnished all of the interior decorative marble for the Christian Scientist church, which was recently dedicated at Boston, Mass. There were forty carloads in all, and the last of it had to be shipped by express in order to get it there in time.

**Mankato Marble.**

MANKATO, MINN., June 20.—Henry E. Hance has some samples of the marble that is being turned out of the Mankato and Kasota quarries. These samples were made at Kasota and are certainly very beautiful. This marble is peculiarly adapted for interior decorative purposes as it takes an extremely high polish and all who have seen it are enthusiastic over it. The Kasota quarry owners are beginning to push it and it would seem to offer inducements for a Mankato quarryman to do something.

**Marble in New South Wales.**

According to a recent report from Consul O. H. Baker, of Sydney, Australia, there are some deposits of very fine marble in New South Wales. From a lack of proper capital and equipment these deposits have never been worked advantageously. The marble is generally of the variegated kind, but is exceptionally fine in quality.

**Blue Ridge Marble Co.**

The accompanying illustration shows the interior of the immense finishing plant of the Blue Ridge Marble Co., at Nelson, Ga. This plant is equipped throughout with all the latest modern appliances known to the trade. Compressed air and every kind of pneumatic tool is used to facilitate the work. This is one of the largest plants in the South and the view gives some idea of the immensity of their operations, although this is but one end of their immense plant. The gang saws, rubbing beds, etc., are in another section of the building. In the section shown the finishing touches are being put on the monuments and they are being boxed ready for shipment.



INTERIOR VIEW OF THE FINISHING PLANT OF THE BLUE RIDGE MARBLE CO., AT NELSON, GA., SHOWING MONUMENTS RECEIVING THEIR FINISHING TOUCHES PREVIOUS TO BEING BOXED FOR SHIPMENT.



OFFICE AND PLANT OF CHEROKEE MARBLE WORKS AT CANTON, GEORGIA.

As will be seen this portion of the plant is lighted with electricity so that a day and a night force can be run. A complete description of the operations at this immense plant were given in an earlier issue. The Blue Ridge Marble Co. is among the oldest and best known concerns in Georgia and while they do a large amount of monumental work they are also large interior decorators and furnish blocks sawed to size for building purposes and have several very large contracts of this character on hand at the present time.

**New Marble Mills Near Knoxville.**

KNOXVILLE, TENN., July 2.—This city has always been known as the "Marble City," on account of the large amount of marble quarried and milled in this section. Every quarry and mill in the section is pushed to supply the demands made upon them and the increase in the marble development about this locality is not yet over. Tennessee marble is practically a Knoxville industry since the offices of the quarries are all located here and this city is justly proud of the improvements which have been made and of the new mills soon to be erected.

The Tennessee Marble Co. has commenced the erection of a \$25,000.00 marble mill at Concord, Tenn. It will be an 8-gang mill with a capacity of two cars of finished marble daily. Work on the United States Marble Mill, destroyed by fire three years ago, is progressing nicely. This mill is located southwest of the city on the Tennessee river and Third Creek, with spur tracks from

the Louisville and Nashville railroad and Southern railway running to the mill. New Machinery has been purchased and will be installed as soon as the mill is completed. John M. Ross has recently completed and put in operation a new marble mill on the South Knoxville spur of the Southern railway near Island Home. The mill has direct railroad connection with the Ross quarry southeast of this city.

Quite a factor in the development of the marble industry is the work of the Southern railway in providing railroad facilities from the quarries along the Tennessee river to the mills and terminals in the city. The completion this year of the South Knoxville spur gives trackage to all the quarries along the south side of the Tennessee between the city and the forks of the Holston and French Broad rivers. When the Southern's river front spur now under construction is completed along the west side of the Tennessee, the ten quarries east of the city will have direct railroad connection. These railroad lines will reduce the cost of production. The cost of loading on the cars at the quarries will be considerably less than shipping from the quarries to the city by tramways and barges and then loading on the cars.

If the Shelby county court house commission decides to build the court house at Memphis of East Tennessee marble, the mills around Knoxville will be kept busy sawing for some time. All of the marble men have agreed to go together and each furnish his prorata of marble for this contract which will call for about 100,000 cubic feet of material.

The Hayes Marble Co., of New York, N. Y., has been organized with a capital stock of \$24,000.00. S. R. Spaulding, Frank Hayes and William Hayes, all of New York, are the directors.

The Hiltgartner Marble Co., of Baltimore, Md., has been organized with a capital stock of \$250,000.00. Those interested are: Charles L. Hiltgartner, Andrew Hiltgartner, R. E. Gessford, E. G. Wells and W. H. Kreeger.

The Montana Marble Co., has been incorporated at Butte City, Mont., with a capital stock of \$100,000.00. Charles Schatzlein, Ernest Beaudette, of Anaconda, Sewell Davis, William E. Kane and J. P. Reins, are the incorporators.

The Crystal Marble Quarries Co., has been incorporated at Spokane, Wash., with a capital stock of \$500,000.00. The trustees are: Robt. E. Lee, Colville, Wash.; C. W. Winter, Colville, Wash.; J. H. Dahl, Wesley, Wis.; W. F. Dustin, Helena, Mont.; W. S. McCrea, W. S. Merryweather, J. M. Madden, F. A. Chase and Harry Gilby, of Spokane, Wash.

Mr. W. H. Woody, Jr., of Richmond, Va., who is the Southern representative of the Chicago Pneumatic Tool Co., made the rounds of the Georgia quarries and dealers last month and succeeded in placing a full line of his tools and equipment in a great many places. Mr. Woody is a hale fellow well met and is very popular with the dealers. He has succeeded in building up a good trade for his firm in the South.

# Stone.

## The National Cut Stone Contractors' Association.

Meets Semi-Annually.

Robert E. Harrach, Chicago, Ill. .... President  
P. B. Parker, New York City. .... First Vice President  
George Dugan, Bedford, Ind. .... Second Vice President  
Henry Struble, Chicago, Ill. .... Secretary-Treasurer

Official Organ, ROCK PRODUCTS.

### Experience is Primarily Essential.

The cut stone operator must have a knowledge of his business of much greater depth than seems to be considered necessary by some of those engaged therein. This knowledge is not acquired in a few months, but comes from the experience of years, in which he gradually learns the intricacies of his trade.

This applies to the manufacturer who has a plant of sufficient magnitude to bid on work of more than ordinary size. It is foolhardy to bid against a number of competitors in opposition to their certain knowledge of the cost of a job, unless you can do so intelligently. In such an event your bid must naturally be either too high or too low, either of which are detrimental to your interests. Say that you chance to guess right, guessing is a poor business method at best, even then you are uncertain of your profits or loss on the contract.

When it is considered and even admitted, that the experienced and conservative cut stone contractors miss the mark in their calculations, what chance has the man with limited experience to profit by his estimate?

The importance of this industry is never more fully realized than at such times. A greater and deeper knowledge is the desirable feature, and without such the cut stone operator is playing a game of chance continually, and will eventually be the loser.

### A Unique Residence of Carved Stone.

The city of Louisville, Ky., can boast of one of the most unique houses in the country, and from the cut stone man's view is certainly interesting. This structure was erected in 1857 by Charles Heigold, a stone carver, who has now been dead forty-five years. This house is located on the "Point," in the eastern part of the city and is still occupied by some of Mr. Heigold's children.

This remarkable residence was erected of brick and stone on a stone foundation, the entire front being of carved stone, quite likely taken from quarries which were located in the vicinity at that

time. As a test of its durability it can be said that this structure has withstood several serious floods which devastated the surrounding country. The carving, which required seven years, is truly remarkable.

In a niche near the top of the house is a bust of James Buchanan, under which is inscribed these words: "James Buchanan, fifteenth President of the United States, in 1857, whose virtues and patriotism entitles him to a crown or laurel from the gratitude of his countrymen."

A door which opens onto a little balcony over the main entrance, serves as a picture frame, under the glass of which is a large colored likeness of George Washington. On the balcony, which is of stone, are inscribed the following words: "The first President of the United States, the man whose greatness has never been surpassed, to whom Americans thank their freedom, and the world owes its love and esteem."

On each side of the balcony, under two second story windows, are wreaths, in the center of which are cut the names, respectively, of C. H. Heigold and J. H. Lämlein, the latter being the maiden name of Mr. Heigold's wife. Over the main entrance the Dove of Peace is carved.

In addition to the above decorations there are many others, including national and patriotic emblems, grotesque heads, wreaths, stars, and also words of greeting, both to the people of Louisville and of the United States.

The decorations were all not only carved, but also painted, and as fast as the ravages of time have dimmed their brightness, they have been repainted in their original hues by the present occupants of the house.

### A Handy Hose Coupling.

The Ingersoll-Rand Co., 11 Broadway, New York, has issued a pamphlet on the use of air appliances for railway service, giving photos and descriptions of their various compressors that are so applied. There is a page each to pneumatic hammers and hand drills and rock drills, a couple to the company's pneumatic pumping system, and a page with illustrations to their "Giv't-a-Twist" hose couplings for pneumatic tools, with but five parts to a complete set and both halves alike and no matching of ends required. No wrench or spanner needed and nothing to wear out except an inexpensive rubber bushing. Nothing projecting beyond the hose to be caught in carrying about and can not uncouple by twisting or kinking.

### A Handy Desk Calendar.

Mr. Michael Cohn, St. James Building, has issued a desk calendar of universal application. It serves as a paper weight, and is a memorandum calendar as well, with a full page for each day's notations; and as each leaf is thrown back it exposes an opposite one with that month's calendar, as well as calendars for the preceding and following months, together with a modest advertisement of Mr. Cohn's specialties, which include Meyers' German Repairing Cement, Dugan's Invisible Patcher, Nash's Cubing Book and all kinds of building stone, notably Indiana limestone and some French building stones for which he has recently been made agent. The leaves are so perforated that at the close of the year they may be quickly bound permanently.

### CUT STONE CONTRACTORS' OUTING.

#### The New York Delegation Given a Most Enjoyable Affair—A Real Jollification.

The Merritt & Chapman Derrick and Wrecking Co., of 17 Battery Place, New York, gave an outing and shore dinner to the cut stone contractors and agents of Greater New York on Saturday, June 30. About 125 stone dealers and their friends assembled on the dock, pier 1 N. R., at 8:45 sharp, where they boarded the large ocean-going wrecking tug, I. J. Merritt for Glenwood, L. I., 35 miles up the Sound, a charming place for a day's outing. The weather on the water was delightful, and the company supplied an abundance of refreshments, and saw to it that no one went hungry or thirsty on the way back and forth to the grounds.

W. L. and I. E. Chapman, together with E. C. Weeks, associate secretary of the company, personally managed every little detail and were most solicitous for the comfort and enjoyment of their guests. Everything at the grounds in the shape of bathing, baseball, bowling, quoit pitching, sailing and numerous other amusements were free to their guests. After arriving there all hands made for the bath houses and all those who delight in bathing were soon splashing around in the water, which, by the way, is an excellent tonic for developing an appetite; it was not long, however, before the party could be seen wending their way to the hotel, where a short time after an excellent shore dinner was served, at the conclusion of which the Chapman Bros., in a few well chosen remarks, welcomed their guests on behalf of the company. The crowd by this time was in a very jolly mood and called upon others of their friends for speeches, among whom were E. C. Weeks, Capt. Quackenbush, Capt. Glatzmayer, J. A. Peary and several others.

After dinner the crowd gathered at one end of the hotel and had a picture taken, after which a match game of base ball was quickly arranged between the single and married men, which the former won by a score of ten to two. While the ball game was going on another spirited contest was taking place at the bowling alleys, between clubs headed by Mike Cohen and Frank Miller, which the former won, while at quoits W. L. Chapman and Capt. Budd seemed to be lucky ones.

Just as the games were exciting intense interest among the spectators and players, Capt. Foster blew his whistle, reminding the boys that New York City was thirty-five miles away and that he wanted to land them there before darkness set in if possible. The crowd therefore, reluctant to leave, began to stroll leisurely down to the boat, where just before weighing anchor another picture of the tug with all on board, was taken from a distance of fifty yards out in the water.

The boat arrived at her dock about 8 o'clock that evening just in time to get everybody ashore before a heavy thunder shower came up. Just before going ashore, the boys gathered around their hosts and gave three cheers and a tiger for the Merritt & Chapman Derrick and Wrecking Co., every one pronouncing it a day well spent.

On the way up some of the boys amused themselves at cards. In a three handed game of auction pinochle between Clarence Smith, Frank Miller and Mike Cohen, Mike took all the small



ALL ABOARD FOR THE SHORE DINNER.



THEY ARE NOW HAPPY; YOU CAN'T FIND THE CLAMS AND CHICKEN.



change, while in the game of euchre between Peary, Ruehe and Frazer, Frazer made his two friends look like amateurs.

The base ball players were: Single Men—R. E. Chapman, c., M. & C. D. & W. Co.; N. Ball, f. b., Carr & Ball; J. Skelly, p., Bedford Quarries; E. R. Reuhe, l. f., with Michael Cohen; W. L. Fenton, 2nd b., Rock Products; C. Carr, c. f., Carr & Ball; W. D. Chapman, s. s., M. & C. D. & W. Co.; F. Rowan; 3rd b., M. & C. D. & W. Co.; W. Doyle, r. f., General Electric.

Married Men—G. K. Beddoe, p., P. M. B. Co.; C. E. Martling, s. s., E. R. R.; H. Campbell, 3rd b., Stone Co.; C. Glatzmayer, 1st b., M. & C. D. & W. Co.; Capt. Kinkle, r. f., M. & C. D. & W. Co.; J. Hawkins, 2nd b., Stone; J. McLeer, l. f., Machinery; T. Quackenbush, c. f., M. & C. D. & W. Co.; L. Constantinider, C. P. M. B. Co. Umpires—George Gobert and Robert Elliott.

Bowling Match—M. Cohen, 1123 Broadway; Clarence Smith, J. R. Smith's Son; F. A. Loy, Klingenberg Co.; Aleck Frazer and Frank Barr, Barr, Thaw & Frazer—Won.

Frank Miller, E. Miller's Sons; D. Cooper, Edwin Shuttleworth Co.; J. MacAnerney, official stone measurer for N. Y.; H. Woodward, C. F. Woodward Co.; Ind. limestone; C. W. Nisbitt, C. F. Woodward Co., 1123 Broadway, Ind. limestone—Lost.

The principal features of the base ball game were the pitching of Beddoe, the base running of Constantinider, and the batting of Martling, Grather and Kinkel for the married men's team, while the single men's team played better together than their opponents, for their side, Ruehe, Ball, Rowan and Fenton tried their best to lose the ball by knocking it out of the field, Rowan and Ball getting home runs to their credit. In field work Chapman and Skelly, the battery, did excellent work. Campbell, Doyle and Hawkins fielded the ball like professionals.

The official photographers were: George Golart and Robert Elliott, of the Merritt & Chapman Derrick and Wrecking Co.

It was a great day for the stone men from the moment the boat started. Mike Cohen was soon one of the most popular men in the party. It was seen when he came aboard that he carried a large and suspicious looking bag, which he was careful to keep near him in the forward part of the deck where he was surrounded by Messrs. Barr, Smith, Cooper, Frazer, Frank Miller, MacAnerney, Woodward, Loy, Beddoe, Penny and Nisbitt. Every one thought he was going to stay over Sunday and had brought along a change of clothing, but it was not long before the bag was opened and the boys soon found that they had the St. Regis Hotel bar in miniature aboard the boat.

Soon there was a rattle of glasses, calls for more ice and another lime and, give me a cigar instead," and "What kind do you prefer? there are all kinds in the bag," etc., were some of the remarks overheard. There was a band of music on board which played all the popular songs of the day. MacAnerney, Tom and Frank Miller, Barr and Nisbitt are known as the "stone quartette," while John Smith, J. A. Peary, Frazer, Barrett, Cohen and Clarence Smith showed that if the stone business should ever go to the bad, they could make more money as heel and toe flat foot or all around dancers than at anything else.

George Beddoe, Skelly, Reuhe, Chapman, Doyle and Quackenbush were the most conspicuous of the younger element and had much to do with the success of the affair, although at times they seemed to act as though they hoped the captain would run down an excursion boat loaded with femininity, as they could not be suppressed when the large sound steamers passed and the dear girls waved frantically with fans, hats and handkerchiefs at the jolly "bunch" on board the Merritt.

The hotel at Glenwood is under the management of the well known New York Hungarian wine importers, Karatzonyi & Kmetz, and consequently their Hungarian dishes and wines were of the best.

The menu was as follows:

MENU.	
Steamed Clams	Clam Broth
Clam Chowder	Apollinaris
Baked Blue Fish	New Potatoes
Budal (Hung. red Wine)	
Broiled Lobster	
Roast Chicken Szamarodni (Hung. white Wine.)	
Mixed Salad	Ice Cream
Cake, Olives, Pickles, Etc.	
Cafe Cigars	

The only paper present devoted to stone or anything else was Rock Products.

Among those invited to be present were the following well known firms, a great many of whom were present or represented there:

Altieri & Sons, 608 Wales Ave., New York City. Barr-Thaw & Frazer, 13th and Adams St., Hoboken, N. J.

Borough Cut Stone Co., 142nd and Walnut Ave. Builders Stone and Contracting Co., Third St. and Ave. A, Unionport-Bronx.

George Brown & Co., 1123 Broadway. Brohmer Bros., Ave. A and Seventh St., Unionport, Bronx.

Batterson & Eisele, Times Building.

George Call & Co., Vernon Ave. and Twelfth St., Long Island City.

Caggiano & Carlucci, Park Row Building.

Cosgrove Bros., Fifty-seventh St. and N. R.

Carr & Ball, 111 Passaic Ave., East Newark, N. J.

John Cullen & Co., First Ave. and 108th St., New York.

Bart Dunn, 68th St. and First Ave.

Durrie & Davidson, Passaic Ave., Harrison, N. J.

Ellin Kilton, & Co., 25th St. and N. R.

James Gillies & S. s. Vernon Ave., L. I. City.

Glsin, Bellows & Dierker, 79th St. and Ave. A, City.

Hanlein, Henry & Son, 417 E. 103rd St.

M. C. Herry & Co., 415 E. 104th St.

H. J. Hoerner & Co., Lister Ave., Newark, N. J.

Fred Hohe, Mills St., Astoria, L. I.

John Hutchinson & Sons, 2383 First Ave.

Jackson, McGlade & Co., Ft. Sanford St., Astoria.

Klingenberg & Co., 106th St. and East River.

B. J. Linahan, 140th St. and Rider Ave., Bronx.

John Liddle & Co., 420 E. 107th St.

Wm. H. McWhirten & Co., 89 Mills St., Astoria.



SHUTTEN & FALLON'S CUT STONE YARD, NEW ORLEANS, LA.

David Miller & Son, 315 E. 103rd St. E. Miller's Sons, Boulevard and Bodine St., L. I. City.

Monohan Stone Co., Plum Point lane, Newark, N. J.

D. G. Morrison, Vernon and Harris Aves., L. I. City.

N. Y. Cut Stone Co., 6-8 East 42nd St.

Oethingen, Damseman & Kupka, 139th St. and Walnut Ave.

Lens Rudolph, 406 E. 109th St.

Edwin Shuttleworth Co., Astoria St. and ft. of E. 105th St., N. Y.

James Sinclair & Co., 413 E. 29th St.

John R. Smith's Son, foot of E. 103rd St.

J. J. Spurr & Sons, foot of Warren St., Harrison, N. J.

J. H. Shipway & Bros., 137th and E. R.

Waverly Marble Co., 1 Madison Ave.

James H. Young & Co., Locust Ave. and 136th St.

John La Soinna, 320 E. 108th St.

Norcross Bros., 160 Fifth Ave.

Robt. H. Reid & Co., Astoria, L. I.

R. C. Fisher Co., 1 Madison Ave.

Penny & Bunt, 132nd and Willow Ave.

Samuel Dean & Bro., Third Ave. and Gowanus Canal, Brooklyn.

Wm. Bradley & Son, Nevins, cor. Butler St., Brooklyn.

James W. Conlon, Ave. A and 65th St.

George Doyle & Co., 287 Fourth Ave.

Halleran & Nevins, 638 W. 51st St.

Kirkpatrick Bros., 258 Broadway.

Martin P. Lodge, 532 W. 44th St.

James McCarthy & Co., 537 W. 48th St.

John Maxwell's Sons, 51 Chamber St.

Augustus Meyers, 542 W. Twenty-first St.

Old Blue Hole Quarry Co., 5 E. Forty-second St.

J. H. Scully, 101st and E. R.

G. P. Sherwood & Co., 1123 Broadway.

Peter B. Sweeney, 206 Broadway.

C. F. Woodward Co., 1123 Broadway.

Hudson River Blue Stone Co., 239 Broadway.

Chase Granite Co., 11 Broadway.

Perry-Matthews-Buskirk Stone Co., 1 Madison Avenue.

Michael Cohen, 1133 Broadway.

Bedford Quarries Co., 1 Madison Ave.

H. P. Binswanger Co., 3 West Twenty-ninth St.

John A. Peary, rep. W. S. R. R.

M. N. Fonda, rep. D. L. & W. R. R.

J. Chase, rep. Erie Railroad.

J. Maul, rep. B. & O. R. R.

J. M. Barrett, terminal agent Erie R. R.

Joseph H. MacAnerney, official stone measurer for New York.

Besides those named here there were the heads of the various lighterage companies, other railroads and big companies whose interests are closely allied with the stone people, and the Merritt & Chapman Derrick and Wrecking Co.

Clarence Smith distinguished himself by swimming around and performing fancy stunts in the water with a big black lighted cigar in his mouth.

Frank Barr and John Smith were easily the best dancers on board.

Thom. Miller, "Sport" MacAnerney and Frank Miller outshone all the other vocalists, the sacred and other songs which they rendered on the way home kept the boys in good spirits and they were heartily applauded.

The only mishap discovered was that somebody fell in love with Mike Cohen's new white plaid cap down in the bowling alleys and walked off with it. Mike came home bare-headed.

F. A. Loy was high score man in the bowling match. He seems to bowl to form summer or winter.

#### General Conditions Are Good Here.

MISHOPPEN, PA., June 28.—Business at the stone mill of the Wyoming Valley Stone Co., located here, has increased quite perceptibly during the past month. The mill has been doing a good business all winter and the prospect now is for a very busy summer. The mill is running full time and many orders for the mill's product are booked ahead.

Thomas A. Sanford, formerly with the Hudson River Blue Stone Co., of Kingston, N. Y., is the superintendent who has been in charge of this plant for several months. John T. Hickey, who recently came here from Newark, N. J., is foreman of the yard.

Arrangements have been made by C. T. Lindsay, the secretary and treasurer, who has charge of the business at the office in Tunkhannock, for installing at once the third gang saw. It is manufactured by the Rice Machine Works, of Kingston, N. Y., and will take a stone measuring 8½ x 14½ feet and five feet high. A new double drum hoist is to be attached to derrick No. 3.

In the Beacher quarry preparations have been made for taking up considerable stone this summer. Robert Jamison is foreman here and he has two fine blocks, one 30 x 50 feet with eight feet of bed, the other 40 x 75 feet with ten feet of bed.

In the quarry at Springville, of which Thomas P. Flemming, of Kingston, N. Y., is foreman, fifteen men are at work. The block which is nearly stripped is 50 x 200. It is a flag quarry.

During the last two months twenty-five cars of rough stone were received at the mill from off the Ontario and Western railroad and a contract has been made for fifteen cars monthly from the same source.

The Acme Stone Co., of New York, N. Y., has been organized with a capital stock of \$10,000.00. M. F. Werner, I. C. Fox and Edward Carpel are the directors.

The Caine Stone Co., of Cleveland, Ohio, has been incorporated with a capital stock of \$10,000.00. Those interested are: E. E. Kinnison, E. Tausig, A. G. Newcomb, B. F. Hopkins and A. H. Fiebach.

The Beasley-Fitzpatrick Co., of Queens Borough, N. Y., has been organized to manufacture bluestone. The capital stock is \$6,000.00 and the directors are: C. J. Fitzpatrick, Ethel S. Fitzpatrick and A. L. Beasley.

# Slate.

## A Few of Its Advantages.

The advantages of slate are quite numerous over many other materials for such purposes as it may be used. The surface is smooth, therefore it will not absorb oils or odorous or decaying organic matter; it is not affected by acids, in which respect it is even better than marble. It is impervious to water, air, and changing weather conditions, and not sensibly affected by ordinary variations in the degree of heat. Among the various uses to which slate is put are bath tubs, wash trays, kitchen sinks, dairy uses, drainage, cisterns, etc. For all these purposes, and many more, the slate is prepared at the factory, according to measurements supplied by the contractor, and all that the latter has to do is to set the slate into place, after it has been set up and fitted at the factory before shipment. Slate used for this purpose can be used in its natural color, or it can be given any color or almost any figure desired. By the process of marbleizing slate all kinds of marble, granite, wood, or tiling material can be imitated.

## Has Slate Property to Sell.

MIDDLEBURY, Vt., June 15.—J. Franklin Jones has sent us the following communication: "I wish to ascertain if you could put me in touch with good parties who are desirous of embarking in the slate business. I have a very good proposition to offer some good people on very reasonable terms, in the way of slate property containing four distinct veins of slate of the finest quality, located only one mile from the D. & H. R. station at Poultney, Vt. This property has been partially developed and several thousand squares of fine slate made, but this was some years ago, at a time when there was a depression in the slate business all over the country. These veins are known as unfading green, purple, sea green and variegated.

"The slate business at present is in a flourishing condition, and as you well know that Vermont stands second as the slate producing state of the Union, this property located right in the heart of the slate belt of the state should appeal to any one seeking this kind of a business. I am prepared to make any one very liberal terms on this, either in the line of a lease or to sell it outright."

## Prospecting for Slate.

OXFORD, PA., June 16.—Work continues prospecting for slate on the George Miller tanyard property, near Fairfield, Drumore township. Some time ago a well about 40 feet deep was dug on the property and at the bottom of it slate was encountered. It seemed to be of good quality and a party of prospectors has started some distance below the well and is digging a channel to it. The idea is to drain the well and then work on the deposit of slate. It is believed the ridge is an extension of the noted slate deposit at the river. Almost a mile of the ridge extends through Mr. Bradley's farm.

## Company Purchases New Quarry.

GRANVILLE, N. Y., June 30.—The Mantauk slate quarry, of Middle Granville, of which Rodney McCormick is the manager, has just purchased the Valley slate quarry of R. E. Lloyd, located between Fair Haven and Poultney, for a consideration of \$10,000.00. The quarry is a big producer of valuable unfading green slate, and at the present time works three shanties. The Montauk Co. will take charge of its new property at once and move its machinery from Middle Granville to the Lloyd quarry. Mr. McCormick believes his concern has made a good move.

The Clark & Sons Co. has been organized at Jersey City, N. J., with a capital stock of \$40,000.00. W. R. Hunter, Jos. Clark, H. B. Christy, and F. C. Launton are the incorporators. The company will quarry slate and granite.

## Slate Quarries Reopened.

The Algonquin Red Slate Co. has opened its quarry in North Granville, N. Y. It has been closed all winter. It is said that the beds that this company are now quarrying will yield the brightest red of any available deposit in the world. This company lately furnished the roofing slate for the New York Custom House, and is now at work upon orders for the toilet room slate work or several Western school houses.

## Conditions at Bangor, Pa.

BANGOR, PA., June 15.—The structural and roofing slate quarries of the East Bangor Consolidated Slate Co. are in full blast now in the endeavor to catch up with the orders held back owing to the strike at the quarries. The men are all steadily at work and business has again assumed the healthy appearance of this prosperous season. One of the busiest men in this section is Mr. William Bray, who is continually on the go, in and out of the quarries, finishing shops and office, constantly overseeing the working of the company in all its details.

Mr. G. D. Shiner, president of the Bangor Slate Co., has had his share of the strike troubles, which have prevailed in the entire Bangor district, and has his shoulder now to the wheel in the endeavor to catch up with his back orders. The quarry, as do all the others in the vicinity, presents a very busy appearance.

With the opening and development of another new quarry at Slatington, and the proposed quarrying for copper just beyond Bangor, the S.



GENERAL VIEW OF AMERICAN SLATE CO., EASTON, PA.

Flory Manufacturing Co. finds itself right up to the handle with the immense increase in orders for hoisting machinery.

Both Mr. Wm. Masters, of the Excelsior Slate Co., and Mr. J. H. Jackson, of Jackson Bros., Penn. Argyl, are sharing in the ever increasing demand for roofing and structural slate, and report business, with the settlement of labor troubles, in an extremely healthy condition.

Mr. T. J. Miller, of T. J. Miller & Son, 1210 Ridge Ave., is very sanguine as to a very busy season. Their structural slate business is constantly increasing, and owing to their keen foresight, this firm was one of the few who felt no bad effects from the recent strike in the Bangor slate region.

## In the Slatington District.

SLATINGTON, PA., June 10.—This is one of the prominent slate localities in this section of the state. There are a number of large operators here and all are enjoying a nice business. The Carbon Slate Co., through Mr. Richards, secretary are finding the demand some better than it has been. They make a specialty of roofing slate, and are among the largest operators in this section.

The Slatington Slate Co. find conditions good but had nothing of particular interest to make public just at the present time, further than that they were working full time and looked for a good season.

The Slatington Slate Syndicate, of which J. L. Foote is president, are large operators here. Business with them is favorable and the outlook is good. They work a number of quarries.

Mr. F. L. Krauss, of the School Slate factory, said that the recent strike among the slate operators was a common occurrence, generally of short duration. They are having a nice demand for their output.

## Headquarters During London Meeting of American Mining Engineers.

During the annual meeting of the American Institute of Mining Engineers is to be held in London this year, commencing on July 23d, those in attendance are cordially invited to make their headquarters at the London offices of the Allis-Chalmers Co., 533 Salisbury House, Finsbury Circus, where mail may be directed in care of Mr. J. W. Young, manager of the offices who also is a member of the Institute.

## The Keller Tools Holding Their Old Place.

In the immense scope that has now been reached by pneumatic tools it is interesting to look back to the inception of the industry and note that the Keller stone tools were the first invented and patented and unlike so many pioneer inventions that have dropped out after opening the way to their successors, these tools are prominently in the market to-day both at home and abroad.

They are manufactured and sold by the Chicago Pneumatic Tool Co. and are made in a full line, comprising crane and junior surfer, plug baby and tripod drills, valve and valveless carrying tools, concrete tampers, air compressors and in short the very fullest line of pneumatic machinery for the stone trade.

These machines have been kept fully up-to-date and embody all of the latest pneumatic tool practice. The manufacturers are strong in their confidence that they are the best on the market and they will send them to any reliable customer on trial against all other makes. They will install a complete plant with machines entirely of their own manufacture and give a liberal guarantee covering the whole installation, including the allowing of a full trial of all the tools. They are arranging store rooms and repair shops in many of the largest cities, that customers may have the most prompt and thorough attention.

The company intends to push the Keller tools and make them the best known in the whole list of pneumatic appliances now on the market.

The Ingersoll-Rand Co., 11 Broadway, New York, have issued a pamphlet entitled, Imperial Type 11 Power Driven Air Compressors. It is profusely illustrated beginning with comprehensive views of the great Ingersoll-Rand plants at Tarrytown and Painted Post, New York. The type 11 is a compact compressor built in various sizes according to the requirements of the purchaser and the pamphlet mentioned takes up every detail of the construction of the machine with a good deal of information applicable to the use of all kinds of air compressors such as lubrication connections and grouping and disposal of the compressor with reference to the motive power. This is one of the useful booklets that has been issued by this company this year and all of them are worthy of the perusal of the user of air compressors and pneumatic tools of any description.

Mr. W. W. Sanderson, representing the Carborundum Co., Niagara Falls, N. Y., has been making a tour in the South in the interests of his company. He was present in Atlanta when the Georgia dealers effected their organization and presented each dealer with a pocket knife sharpener made of carborundum as a souvenir. Mr. Sanderson, while yet a young man, has been very successful and made many friends while in the south.

## Wanted and For Sale

One insertion, 25c a line; Two insertions, 50c a line; Three consecutive insertions with no change in the composition, 50c a line. Count eight words to a line; add two lines for a head.

## WANTED—HELP.

AT ONCE—Fifty first class quarrymen and scabblers of sandstone, at North Amherst, Ohio. Address THE OHIO QUARRIES CO.

A PRACTICAL QUARRYMAN—One who is fully capable of superintending a large gyratory crushing plant. Good wages. None but the best need apply. State experience in your reply. O Z Z, care Rock Products.



A FIRST CLASS SALESMAN to travel Southern States among agents. Address ROBERTS MARBLE CO., Ball Ground, Ga.

A HAND TO LETTER AND CARVE MARBLE—Regular job for first class, reliable man; one who can letter granite preferred. Address WM. ADAMS & SON, Lexington, Ky.

CAPABLE SUPERINTENDENT for a Wisconsin Granite Quarry; one familiar with the manufacture of crushed stone, paving blocks, etc. Good, permanent position to right man. Address WISCONSIN GRANITE CO., 520 Chamber of Commerce, Chicago, Ill.

EXPERIENCED SALESMAN for Tennessee block and slab marble. Address M Z 1, care Rock Products.

GRANITE CUTTERS, also letterers. Steady work the year around for good sober men. Open shop. Address J. Z. 1, care Rock Products.

**BUSINESS OPPORTUNITIES.**

ANY ONE WISHING TO INVEST in the stone business will do well to write to the Charlotte Marble and Granite Co., at Charlotte, N. C., as there is some stock to be taken yet; also, one of the firm wishes to sell part of his stock. It will be of interest to any one to correspond with the above firm.

**Stone Crushers for Sale.**

One Morris Crusher No. 5, opening 24x72.  
One Morris Crusher No. 5, opening 20x60.  
Two Champion Crushers No. 5, opening 13x26.  
These Crushers are in excellent working order and will be sold at a low price and are ready for quick delivery. E. B. LEAF & CO., Buyers of scrap iron and old rails, 1241 Real Estate Trust Building, Philadelphia, Pa.

**FOR SALE—MACHINERY.**

ONE INGERSOLL-SERGEANT DRILL—No. B 32, with all fittings; in A 1 condition. STANDARD LIME CO., Kendrick, Fla.

TEN WARDELL channelling machines, in fair condition. Cheap. May be seen at our quarries, Amherst, Ohio. Address or call on the Ohio Quarries Company, 818 Euclid Avenue, Cleveland, O.

TWO NEW PATTERN gang stone saws, 14-0 x 6-0. One new turning lathe 12-0 x 3-0. Cheap Address Pleasant River Granite Co., Addison, Me.

**WANTED—MACHINERY.**

A GRANITE COLUMN LATH to turn columns 2-6 diameter by 16 feet long. Address O Z 1, care Rock Products.

SECOND HAND ROCK CRUSHER.—State kind, price and full particulars. Address N Z 1, care Rock Products.

**FOR SALE—MISCELLANEOUS.**

DYNAMITE 25 per cent off. We offer a limited quantity of 30, 40, 60 per cent Dupont Nitro Glycerine Dynamite at about 25 per cent off regular price. Correspondence solicited and samples forwarded on request. NATIONAL PLASTER AND SUPPLY CO., Parkersburg, West Virginia.

**FOR SALE—PLANT.**

A WELL EQUIPPED Rock Crushing Plant, now running on railway ballast. Output sold for two years ahead. We have retired from the contract work of all kinds and are desirous of selling this plant. Liberal terms to one who knows the business. Address GLEAVES & CO., Lynchburg, Va.

FOR SALE OR TO LET to the right party, a complete retail granite plant with shed, derrick, blacksmith shop and office in a good town with good surroundings. For further particulars address J. S. SWINGLE, Quincy, Mass.

OHIO SANDSTONE QUARRY, now in operation, producing a high grade of building stone; large acreage of stone. Thoroughly equipped; including stone sawmill, electric light, railroad with standard gauge locomotive steam drills, channelling machines and hoisters, steam shovel equipment with narrow gauge locomotive and dump cars for stripping. A most complete outfit with a fine established trade. Address OHIO QUARRY, P. O. Box 417, Cincinnati, Ohio.

**WANTED—POSITION.**

BY A QUALIFIED PARTY AS SUPERINTENDENT of Quarry, who fully understands the working of same. Either Granite, Marble Sandstone or Limestone. Practical knowledge of same acquired by actual experience. Fully understand all modern quarry machinery, also the Knox system of blasting. Address SUPERINTENDENT, 2044 Valentine Ave., Bronx, New York City.

BY LADY BOOKKEEPER, Stenographer and Saleslady, employed for the past fifteen years by Des Moines Marble & Mantel Co. Will furnish firstclass references. Address L. WOODS, No. 93, Iliad Apartments, Des Moines, Iowa.

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Write for Catalogue No. 37.

STANDARD STEEL DUMP CAR  
DUMPING TO BOTH SIDES.

SECTION OF PORTABLE TRACK.

PLATFORM CAR  
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SIDES OR AT ONE END.

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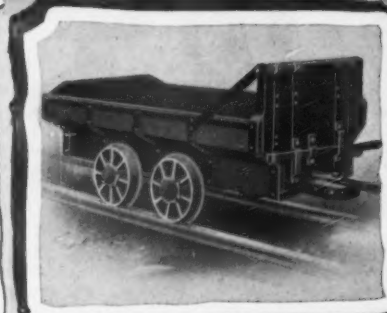
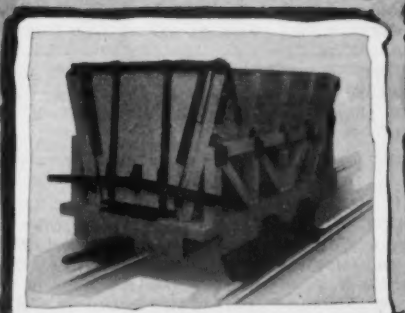
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HIGH  
CAN BE MADE  
AUTOMATIC

# WATT



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HOLDS 25 PER  
CENT GREATER  
LOAD

THE WATT MINING  
CAR WHEEL COMPANY  
BARNVILLE, OHIO, U. S. A.

## ROCK PRODUCTS' ADVERTISERS INDEX.

Advertisers after which the page number does not appear the advertisement will be found in the next issue:

Abbiatti, E. & Bros.	53	Carpenter, R. H.	45	Hawkrigge Bros.	50	National Concrete Supply Co.		Shepherd & Parker	
Acme Cement Plaster Co.		Carthage Superior Limestone Co.		Hayden Automatic Block Mac.		National Brick Machinery Co.		Shoop, S. W. & Co.	
Aetna Powder Co.		Casca & Ciconi	45	Co.		National Wall Plaster Co.		Simpson Cement Mold Co.	
Abern, James	44	Cane Mfg. Co.	7	Harrison Supply Co.		New Albany Wall Plaster Co.		Smith, F. L.	
Allis-Chalmers Co.	6	Caumikar, T. C. & Sons	46	Henderson Supply Co.		New Albany Mfg. Co.	59	Smith, E. L. & Co.	56
Alpha Portland Cement Co.		Cement Machinery Co.		Henderson Route		Newaygo Portland Cement Co.		Smith Bros.	52
Alsing, J. R. & Co.		Cement Machinery Mfg. Co.		Hendricks Novelty Co.	8	New York Consolidated Slate Co.	45	Soderstrom, J. A.	
American Air Compressor Works	2	Century Cement Machinery Co.		Howard Hydraulic Cement Co.		Niles-Bement-Pond Co.	7	South Bend Machine Co.	
American Clay Working Machinery Co.		Chase Foundry and Machine Co.		Howells Mining Tool Co.		Norris & Christian Stone & Lime Co.		Southern Roofing & Paving Co.	
American Granite Co.		Chattanooga Paint Co.		Howston Bros. & Co.		Northampton Port Cement Co.		Sprague Elec. Co.	
American Hydraulic Stone Co.		Chemical Sinco Retarder Co.		Ideal Concrete Machinery Co.		N. C. Granite Corporation	48	Standard Brick Mch. Co.	
American Process Co.		Chicago Belting Co.	58	Illinois Steel Co.		N. W. Expanded Metal Co.		Standard Sand & Mac. Co.	
American Portland Cement Co.		Chicago Pneumail Tool Co.		Indiana Steel Co.		Nuttall, R. D. Co.		Star Elect. Fuse Co.	9
American Sandstone Brick Co.		Chicago Portland Cement Co.		Indiana Bedford Stone Co.	32	O'Brien, P.	45	Standard Mac. Co.	
American Sewer Pipe Co.		Chickamauga Portland Cement Co.		Ingersoll-Rand Co.	6	Ohio Fiber Machinery Co., The.		Steam Stone Cutter Co.	1
American Soap Stone Finish Co.		Chickamauga Quarries Co.		International F. & Fire Proofing Co.	2	Ohio Lime Co., The.		Stewart Granite Works	48
Anderson Marble Works	45	Clayton Air Compressor Works	8	Jeffrey Mfg. Co.	5	Ohio Retarder Co., The.		Stone Working Mac. Co.	4
Anderson Bros.	44	Cleveland Builders Supply Co.		Johnston, August	68	Oklahoma Granite Co.	48	Strait, John	4
Anderson, Geo. & Co.	57	Cleveland Car Co.		Kennesaw Marble Co.	47	Oliver, W. J., Mfg. Co.	5	Stricker Mac. Co.	
Ash Grove White Lime Association		Clinton Metallic Paint Co.		Kentucky Silica Co.		Oolitic Stone Co., of Indiana	82	Stroud, E. H. & Co.	45
Ashland Fire Brick Co.		Cohen, Michael	1	Keystone Cement Block Mac. Co.		Ossola, Jos. D.	52	Stroudsburg Engine Works	
Ashland Steel Range Co.		Concrete Engineering and Equipment Co.		King, J. H. & Co.		Ottawa Silica Sand Co.		Sturtevant Mill Co.	8
Atlas Car Mfg. Co.	45	Concrete Stone & Sand Co.		Knutzen & Isdell		Osark Co. perage Co.		Sullivan Mch. Co.	5
Atlas Cement Machinery Co.		Consolidated Granite Co.	60	Koppl, Arthur Co.		Palmer, Noyes F.		Swindell, Wm. & Sons	
Atlas Portland Cement Co.		Consolidated Quarry Co.	56	Kosmos Portland Cement Co.	5	Palmer, Harmon S.		Sweeney Bros.	60
Aurora Boiler Works	8	Consolidated Stone Co.	30	Kotten, H. G.		Parry, L. L.	45	Taylor Iron and Steel Co.	
Austis Mfg. Co.		Contractors' Supply & Equipment Co.		Kritzer Company, The.	49	Patch, F. R.	59	Teasdale, R. J.	10
Averill Granite Co.	52	Crippen, H. D.	41	Krug & Co.		Parson, J. W. Co.		Thomas Block System	
Backus Gas Engine Co.	44	Dallett, Thos. H. Co.	57	Lane, W. A.	45	Perry-Mathews-Buskirk Stone Co.	30	Trow & Holden	58
Bauser Cement Co.		Davenport Locomotive Works	7	Lehigh Portland Cement Co.		Pettyjohn & Co., The.		Union Mining Co.	
Bartlett, C. O. & Snow Co., The.		Dea Moines Mfg. & Supply Co.		Lehigh Car & Axle Co.	8	Peirce City White Lime Co.	58	U. S. Drying Machinery Co.	
Bart White Granite Co.	52	Devers Cement Works	53	Leusch Mfg. Co.		Pittin & Co.	44	United States Gypsum Co.	
Bates, I. W.	50	Doucette Bros.		Leitchjohn & Milne	52	Pittsburg Crushed Steel Co.	2	Urschel Bates Valve Bag Co.	
Bates Eng. Co.		Dunning, W. D.		Lincoln Iron Works	2	Plymouth Gypsum Co., The.		Vulcan Grit Works	1
Bedford Quarries Co., The.	31	Dunn, W. E.		Lombard Foundry and Mac. Co.	45	Post Pipe Co.		Ward Lincoln & Co.	
Bedford Steam Stone Co.	32	Du Pont Powder Co.	7	Louisville Fire Brick Co.		Power and Mining Machinery Co.	10	Warner, Chas. Co.	
Bell, Edwin Co., The.		Dunkin Reeves	41	Louisville & Henderson R. R.		Pulsometer Steam Pump Co.	19	Watt Mining Car Wheel Co.	
Bergbauer & Perry	50	Eclat Granite Co.	53	McKelvey Mixer Co.	45	Queen City Brick Machinery Co.		Weber Gas and Gasoline Engine	8
Bianchi, Chas.	55	Edmondson Mac. Co.		Macomber & White Rope Co.	44	Quinlen, W. C.		West Leeburg Steel Co.	44
Big Four Route		Elyria Mac Works, The.		McMillan, C. W. & Son	31	Raymond Bros. Co., The.		Western Cement Co.	
Biles Dryer Co.		Elyria Wood Plaster Co., The.		McMillan, W. & Son	31	Richards, John R.	50	Western Lime Co.	
Bilodeau, J. O.		Ersham, J. B. & Sons Mfg. Co.		Mannex, T. F.	10	Richards, John R.		Westmore & Morse Granite Co.	55
Binnis Stucco Retarder Co.		Eureka Mac. Co.		Manning, Maxwell & Moore		Rickerson Mineral Paint Works	45	Wheeling Port Plaster Co.	
Birmingham Iron Foundry	60	Excelsior Granite Co.		Main Belting Co.	41	Rogers White Lime Co.		Whitehall Port. Cement Co.	
Bishop, Joseph		Farnam Cheshire Lime Co.		Mandit Powell Concrete Machinery Co.		Rochester Lime Co.		Wichita Coal & Material Co.	
Blue Ridge Marble Co.	46	Federal Clay Products Co.		Marquette Cement Mfg. Co.		Rogers White Lime Co.		Williams, C. K. & Co.	
Bostwick Steel Lath Co.		Finerty, J. W.	45	Martin, Henry		Rowe, John A.	32	Werner Co.	
Boutwell, Milne Varnum Co., The	54	Fisher Hydraulic Stone & Mac. Co.		Mattews Gravity Carrier Co.	5	Rugles-Coles Eng. Co. New York		Winget Concrete Mac. Co.	
Bowers, R. C., Granite Co.	50	Fowler & Pay		McMahon & Co.	49	Ruxton, George	50	Wittekind, H. C.	
Brooks-Curtis Stone Co.	32	Franklin Printing Co.		McMillan, C. W.	53	Sandusky Portland Cement Co.		Woodbury Granite Co.	52
Broomell, Schmidt & Steacy	44	Fremier & Son		McMillan, W. & Son	31	St. Louis Portland Cement Co.	1	Woodville White Lime Co., The	
Buckeye Portland Cement Co.		Furst, Kerber Stone Co.	32	Meacham & Wright		St. Louis Engine Co.	46	Woonham-Major Eng. Works	9
Butterworth & Lowe		Gandy Belting Co., The.		Meyer, W. D.		Sickles, Geo. B.	60	Wulff, W. C. & Co.	
Caden Stone Co.	1	Garry Iron and Steel Co., The.		Mills & James		Schneider Granite Co.	60	Yale & Towne Mfg. Co.	10
Cameron D. E.	50	Georgia Marble Co., The.	47	Mills & Co.		Scioto Lime Co.	9	Young & Kewright	45
Cappon, Thomas W.		Georgia Marble Finishing Works	46	Milwaukee Bag Co.		Shaw Electric Crane Co.	9	Young Bros.	44
		German American Port Cement Co.		Miracle Pressed Stone Co.		Stephens & Gerrard	51		
		Goetz, C. W., Lime & Cement Co.		Mitchell Clay Mfg. Co.					
		Grand Rapids Plaster Co.	50	Mitchell Lime Co.					
		Granite R. Co.	50	Morgan Construction Co.					
		Granite Ex. Co.	50	Morris Sherman Mfg. Co.					
		Grucci Bros.	53	Moulton, Dustin	10				
		Haley, Matt	53	Munroe & Co.					
		Hardsoc Wonder Drill	9	Mundie, Alexander					
				Municipal Eng. & Contracting Co.					



## Business Directory.

## AIR COMPRESSORS.

Allis-Chalmers Co. ....  
American Air Compressor Works .....  
Chicago Pneumatic Tool Co. ....  
Clayton Air Comp. Wrks. ....  
Ingersoll-Rand Co., New York .....  
Kotten, H. G. ....  
St. Louis Steam Eng. Co. ....  
Sullivan Machinery Co. ....

## ARMORED HOSE.

Sprague Elect. Co. ....  
Mulconroy & Co. ....

## BAGS.

Milwaukee Bag Co. ....

## BALL MILLS.

J. R. Alsing Co. ....  
The Allis-Chalmers Co. ....  
Power and Mining Machinery Co. ....

## BELTING.

Chicago Belting Co. ....  
Main Belting Co. ....  
Gandy Belting Co., The ....

## BLOCKS TACKLE.

Yale & Towne Mfg. Co. ....

## BOILERS.

Aurora Boiler Works .....  
Lombard Foundry and Mach. Co. ....

## BOLTING SCREENS.

Jeffrey Mfg. Co. ....

## CEMENT PORTLAND.

Atlas Portland Cement Co. ....  
Alpha Portland Cement Co. ....  
Buckeye Portland Cement Co. ....  
Chickamauga Portland Cement Co. ....  
Chicago Portland Cement Co. ....  
German-American Portland Cement Co. ....  
Goets, Chas. W., Lime and Cement. ....  
Hartman, Wm. G. ....  
Illinois Steel Co. ....  
Kosmos Portland Cement Co. ....  
Lehigh Portland Cement Co. ....  
Marquette Cement Mfg. Co. ....  
Mensch & Wright .....  
Newaygo Portland Cement Co. ....  
Sandusky Port. Cement Co. ....  
St. Louis Portland Cement Co. ....  
Whitehall Portland Cement Co. ....  
Warner, Chas. Co. ....

## CEMENT HYDRAULIC.

Banner Cement Co. ....  
Fowler & Pay .....  
Western Cement Co. ....

## CONCRETE BLOCK MACHINERY.

Atlas Cement Machinery Co. ....  
American Hydraulic Stone Co. The ....  
Cement Machinery Mfg. Co. ....  
Cement Machinery Co. ....  
Coltrin Mfg. Co. ....  
Concrete Stone and Sand Co. ....  
Century Cement Machinery Co. ....  
Devers Cement Works .....  
Dunn, W. E. ....  
Edmondson Mac Co. ....  
Fisher Hydraulic Stone & Ma. Co. ....  
Hayden Automatic Block Machine. ....  
Ideal Concrete Machinery Co. ....  
Knutsen & Isdell .....  
Keystone Cement Block Machine Co. ....  
Mandt Powell Concrete Mch. Co. ....  
Milan & James .....  
Miracle Pressed Stone Co. ....  
Nurock Machine Co. ....  
Palmer, Harmon S. ....  
Palmer, Noyes F. ....  
Perfection Block Mac. Co. ....  
Pettyjohn Co., The ....  
Simpson Cement Mold Co. ....  
Standard Sand & Mach. Co., The ....  
Stringer Machine Co. ....  
Strait, John .....  
Walters Stone Machine Co. ....  
Winget Concrete Machine Co. ....  
Wichita Coal & Material Co., The ....

## CEMENT BRICK MACHINERY.

Queen City Brick Machinery Co. ....  
Peerless Brick Mac. Co. ....  
Seamans, E. W. ....

## CEMENT MACHINERY.

Allis-Chalmers Co. ....  
J. R. Alsing Co. ....  
F. G. Smith & Co., New York. ....  
Jeffrey Mfg. Co. ....  
Kent Mill Co. ....  
Power and Mining Mch. Co. ....  
Ruggles-Coles Eng. Co. ....  
Swindell, Wm., & Bros. ....

## CEMENT PIPE MOULDING PRESS.

F. L. Smith & Co. ....

## CHANNELING MACHINE.

Ingersoll-Rand Co. ....  
Steam Stone Cutter Co. ....  
Sullivan Machinery Co. ....

## CHILLED STEEL SHOT.

Pittsburg Crushed Steel Co. ....  
Harrison Supply Co. ....  
Vulcan Grit Works .....  
R. C. Bowers Granite Co. ....

## CLAY WORKING MACHINERY.

National Brick Machinery Co. ....

## CONCRETE MIXERS.

Contractors Supply & Equipm't Co. ....  
Eureka Mac. Co. ....  
International Concrete Mixer Co. ....

McLelvey Mixer Co. ....  
Municipal Eng. & Contract'g Co. ....  
The Standard Mac. Co. ....

## CONCRETE WORK.

L. L. Parry .....  
CONTRACTORS SUPPLIES.  
Houston Bros. Co., Pittsburg, Pa. ....  
COLORINGS, BRICK AND MORTAR.  
Chattanooga Paint Co. ....  
Clinton Metallic Paint Co. ....  
Ricketson Mineral Paint Co. ....  
Williams, C. K. & Co. ....

## CONVEYORS.

Eraham, J. B. & Sons Mfg. Co. ....  
Jeffrey Mfg. Co. ....  
Power and Mining Machinery Co. ....  
Standard Sand and Mch. Co. ....  
Allis-Chalmers Co. ....

## COOPERAGE.

Bell, Edwin Co., The ....  
Ozark Cooperage Co. ....

## CRANES, ELECTRIC.

Case Mfg. Co. ....  
Niles-Bement Pond Co. ....  
Shaw Elec. Crane Co. ....

## CRUSHED STEEL.

Pittsburg Crushed Steel Co. ....

## CRUSHERS.

Allis-Chalmers Co. ....  
J. R. Alsing & Co. ....  
Austin Mfg. Co. ....  
Butterworth & Lowe .....  
Des Moines Mfg. and Supply Co. ....  
Eraham, J. B. & Sons Mfg. Co. ....  
Jeffrey Mfg. Co., The ....  
Kent Mill Co. ....  
Martin, Henry .....  
Power and Mining Machinery Co. ....  
Sturtevant Mill Co. ....  
Taylor Iron and Steel Co. ....  
Williams Patent Crusher and Pulverizer Co. ....

## CUT GEARS.

Nuttall, R. D. Co. ....

## DERRICKS.

Haley, Matt .....  
Steam Stone Cutter Co. ....

## DRAIN TILES.

American Sewer Pipe Co. ....

## DRILLS.

Chicago Pneumatic Tool Co. ....  
Crippen, H. D. ....  
Hardsocg Wonder Drill Co. ....  
Howell Mining Tool Co. ....  
Ingersoll-Rand Co. ....  
Marvin Electric Drill Co. ....  
Steam Stone Cutter Co. ....  
Sullivan Machinery Co. ....

## DRYERS.

Alsing, J. R. Co. ....  
American Process Co. ....  
Bartlett, C. O., & Snow Co., The. ....  
Biles Dryer Co. ....  
Ruggles-Coles Eng. Co. ....  
Standard Sand and Mac. Co. ....  
U. S. Drying Mch. Co. ....  
DRYER CARS.  
Chase Fdy. and Mach. Co. ....  
Cleveland Car Co. ....  
Power and Mining Mch. Co. ....  
Wonham-Major Eng. Works. ....

## DUMP CARS.

Allis-Chalmers Co. ....  
Atlas Car Mfg. Co. ....  
Cleveland Car Co. ....  
Koppel, Arthur Co. ....  
Oliver, Wm. J., Mfg. Co. ....  
Watt Mining Car Wheel Co. ....  
Wonham-Major Eng. Works. ....

## DUMPING BUCKETS.

Atlas Car Mfg. Co., The. ....  
Wonham-Major Eng. Works. ....

## DYNAMITE AND POWDER.

Aetna Powder Co. ....  
Dupont Powder Co. ....

## ENGINEERS.

Bates Engineering Co. ....  
Shoop, S. W. & Co. ....  
Spackman, Henry Eng. Co. ....

## ERADICATOR GRANITE STAIN.

Finerty, J. W. ....

## EXCELSIOR.

Caumissar, T. C. & Sons. ....  
FIBRE MACHINERY.  
Concrete Eng. and Equip. Co. ....  
Elyria Mac. Works, The. ....  
Ohio Fibre Mch. Co., The. ....

## FIRE BRICK.

Ashland Fire Brick Co. ....  
Federal Clay Product Co. ....  
Louisville Fire Brick Co. ....  
Mitchell Clay Mfg. Co. ....  
J. W. Paxson Co. ....  
Union Mining Co. ....

## FLUE LINERS.

American Sewer Pipe Co. ....

## FOUNDRY WORK.

Lombard Foundry and Mac. Co. ....

## FUZZES.

Aetna Powder Co. ....  
Star Elect. Fuse Co. ....

## GAS AND GASOLINE ENGINES.

Allis-Chalmers Co. ....  
Backus Gas Engine Co. ....  
Henricks Novelty Co. ....  
Power and Mining Machinery Co. ....  
Weber Gas and Gasoline Engine. ....

## GAS PRODUCERS.

Backus Gas Engine Co. ....  
Morgan Construction Co. ....  
Power and Mining Machinery Co. ....

## GRAVE VAULTS.

Parry, L. L. ....

## GYPSUM.

Grand Rapids Plaster Co. ....  
Plymouth Gypsum Co., The. ....  
United States Gypsum Co. ....

## GRANITE

Abblatti, E. & Bros. ....  
Abern, James .....  
Anderson Bros. & Johnson .....  
Anderson, A. & Sons. ....  
Averill Granite Co. ....  
Barre White Granite Co. ....  
I. W. Bates .....  
Big Four Company .....  
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Blahop, Joseph .....  
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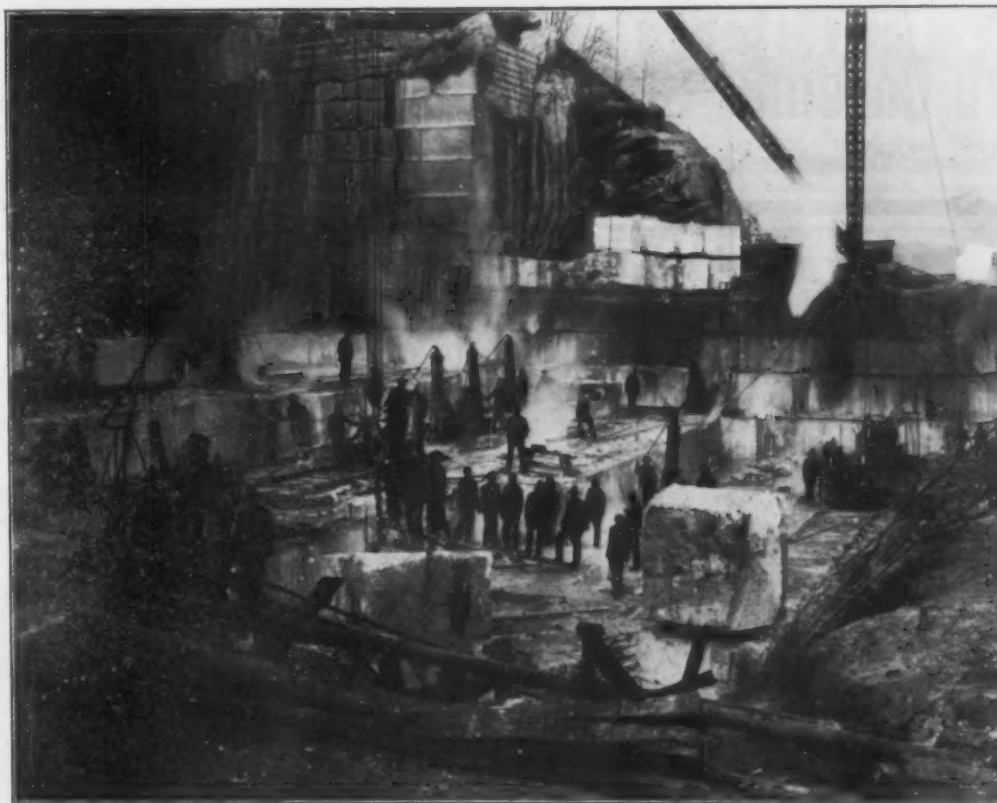
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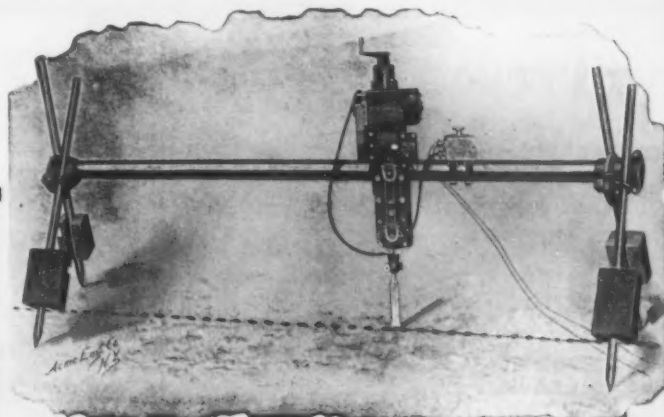
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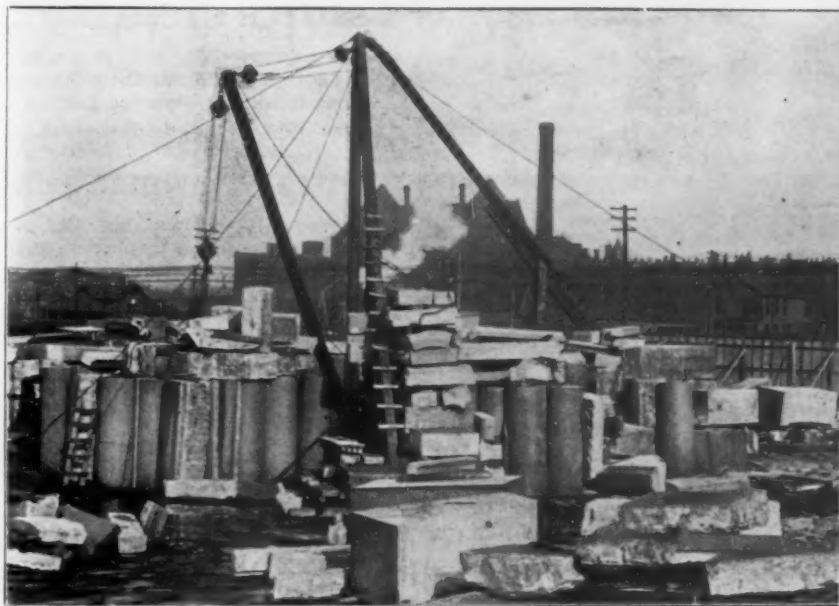
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Granite Manufacturers and Quarry Owners

BARRE, VERMONT

Tell 'em you saw it in ROCK PRODUCTS.



## BEST LIGHT and MEDIUM Barre Granite

All modern quarry equipment. Orders shipped promptly to limit of transportation. All sizes from markers to roof stones.

**Littlejohn & Milne,**  
QUARRIERS.  
**Barre, Vermont**



**T**HIS is a sample of the work we turn out. We do our work so that our customers come again and they stay. We manufacture all classes of work from Mausoleums to Markers and as we have surfacing and all kinds of pneumatic tools, it enables us to furnish orders on contract time and at reasonable prices, considering the quality of work.

Our specialty is Carved and Hammered work.

**SMITH BROS. GRANITE CO., Barre, Vermont**

THE 1000 CAR LOADS

of fine hammered

## WOODBURY GRANITE

Used on the exterior of this structure.



THE NEW STATE CAPITOL BUILDING, Harrisburg, Pa.

was quarried, cut, carved, etc., set and washed down in less than two years time by the

## WOODBURY GRANITE CO.,

Geo. H. Bickford, Manager.

Main Office: HARDWICK, VT.

### BRANCH OFFICES.

1 Madison Ave., NEW YORK CITY. 925 Tremont Building, BOSTON, MASS.

132 La Salle Street, CHICAGO, ILL.

1101 Farmers' Bank Building,

PHILADELPHIA, PA.

## Every Retail Dealer ought to have in his Show Room a few imported MEMORIAL METAL FLORAL WREATHS.

Made in perfect and absolutely unfading colors. They beautify the cemetery lot. Write for particulars to

**JOSEPH D. OSSOLA, - Barre, Vermont.**  
Sole Agent in the United States.

John E. Smith.  
Donald Smith.

N. D. Phelps,  
Mgr.

John Trow.  
H. A. Phelps.

## Barre White Granite Co.,

Successors to WHEATON QUARRIES.

## White Granite MONUMENTAL WORK, CURBING AND PAVING.

Write For Quotations.

BARRE, VERMONT.

## THE SALESMAN IS A GOOD FELLOW

But can you afford to pay his expenses for the pleasure of his visits? You are doing it, in one way or another when you buy from him or his employers.

## WE SELL BY MAIL ONLY

Our salesmen travel cheap. We are not paying enormous rents in large Cities, hundreds of miles away, but are

## RIGHT ON THE SPOT

Why shouldn't we save you money, time and trouble? WE DO. Better find out about it. Your competitors are sending to us for their bargains. get in line and do likewise.

## Averill Granite Co.,

Averill Building, BARRE, VT.

Tell 'em you saw M in ROCK PRODUCTS.





**E. ABBIATTI & BROS.**

Specialty in  
HIGH CLASS CARVING

Manufacturers and  
Wholesalers of  
**CEMETERY WORK**  
in Barre Granite.

OFFICE AND  
WORKS:  
BARRE, VERMONT.

Successors to  
Emmie, McLeod & Co.

DID YOU EVER  
TRY US IN OUR  
SPECIALTY?

Carving and Let-  
tering Barre Gran-  
ite Monumental  
Work. :: :: ::

SPECIAL DESIGNS IN STOCK

**Doucette Bros.,**  
MONTPELIER, VT.



Manufacturers of

**Barre  
Granite**

In all Classes of Work

**C. W. McMillan  
& SON**

BARRE, VT.

ONE of the biggest  
derricks in the  
United States, built,  
rigged and set up by

**MATT HALEY,**  
BARRE, VT.

Does business from  
Maine to California.



We have just purchased the entire Cutting Plant of McDonald, Cutler & Co. including their good will

This big plant, with shed room 318 feet long, five polishing machines and all modern equipment; greatly increases our capacity and we want your business. Always ask us for prices when buying Barre work

In order to introduce our work, we will make a special price for the next sixty days on the accompanying design Send for price.

**ECLAT GRANITE CO.**

BARRE, VT.

Successors to McDONALD, CUTLER & CO.

**Specialty  
of  
Large  
Work  
and  
Carving**

Accompanying cut  
represents our  
class of work. Bot-  
tom base is 6 ft.  
3 in. square.

**GIUDICI BROS.**

BARRE, VT.



=====

This is a portion  
of the Famous  
MILNE, CLARKE  
& GRAY Quarry now  
owned by THE  
BOUTWELL - MILNE -  
VARNUM COMPANY.

=====



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This is a portion  
of the Famous BOUT-  
WELL Quarry.

=====

## Producers of the BEST DARK BARRE GRANITE

ROUGH STOCK Furnished to the Limit of Transportation.

**THE BOUTWELL-MILNE-VARNUM CO.,** Quarries at BARRE,  
Offices at MONTPELIER, VT.

Tell 'em you saw it in ROCK PRODUCTS.



# WETMORE & MORSE GRANITE CO.

Finest Light  
and Medium

## GRANITE

for Monumental  
or Building Work.

Any Dimensions  
Furnished to Limit  
of Transportation.

Stock for

## Large Work

a Specialty.



QUARRIES AT BARRE, VT.

OFFICE: MONTPELIER, VT.



## Chas. Bianchi & Sons,

MANUFACTURERS AND DEALERS IN

All classes of fine Monumental, Cemetery and  
Building Work from best light and  
dark Barre Granite.

ESTIMATES FURNISHED.

Statuary and Carving with  
Pneumatic Tools.

Bases, Caps, Dies, Etc.,  
Squared and Polished for  
the Trade.

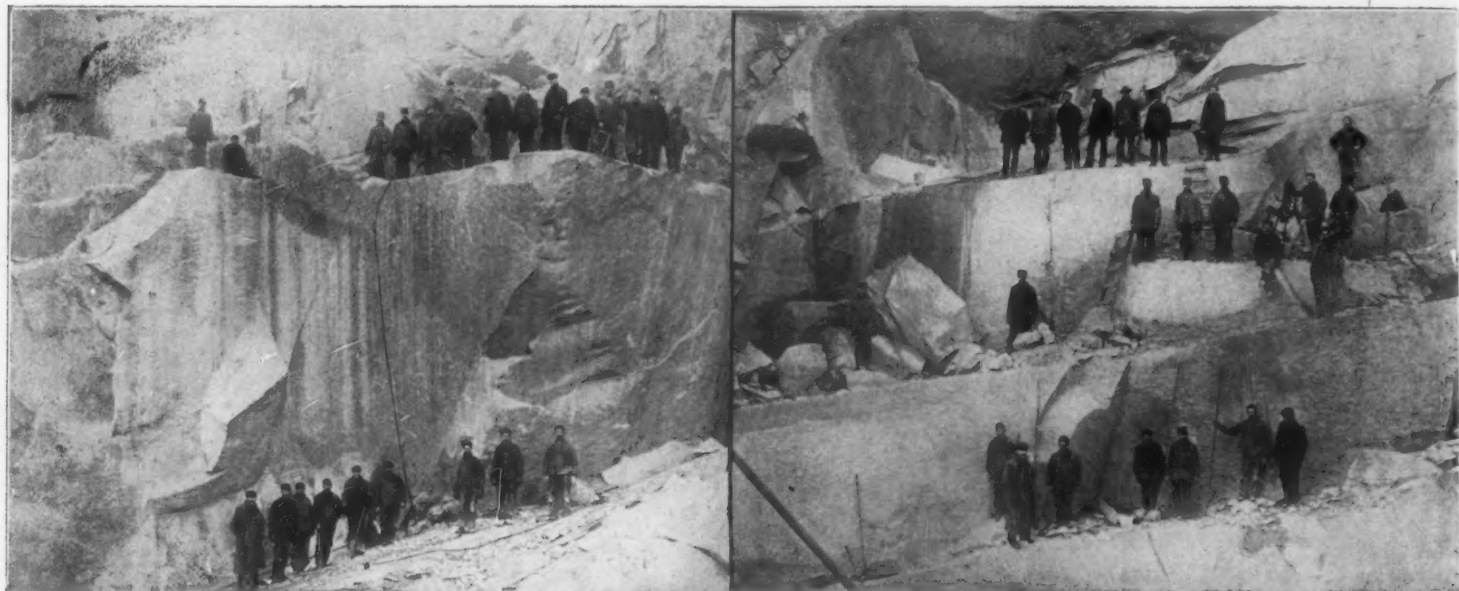
We have recently bought the immense  
and thoroughly equipped cutting plant of  
Mutch & Colder. This, combined with our  
long experience and thoroughly established  
reputations should merit your custom.

# CHAS. BIANCHI, Barre, Vt.

Tell 'em you saw it in ROCK PRODUCTS.

# FOUR BIG COMPANIES

**Under One  
Management**



## Best Barre Light and Medium

Stock Furnished to Limit of Transportation.

**CONSOLIDATED QUARRY COMPANY, BARRE, VERMONT.**

J. W. McDONALD, Pres. and Gen. Mgr.

C. A. WORDEN, Vice-Pres.

F. T. CUTLER, Treasurer.

D. W. McDONALD, Superintendent.

JOHN E. SMITH.

ESTABLISHED 1868.

DONALD SMITH



**E. L. SMITH & CO.**

QUARRY OWNERS AND  
WHOLESALE DEALERS IN

**LIGHT, MEDIUM  
AND DARK  
BARRE GRANITE**

Rough stock of any dimensions  
to the limit of transportation  
promptly furnished at all times.

Quarries and Cutting Works: :: :: :: **BARRE, VERMONT**

tell 'em you saw it in ROCK PRODUCTS.



# SURFACING MACHINES

## Plug Drills, Carving Tools, Fittings, Etc.

When the men who are operating the largest stone yards and quarries in the United States, men who have had years of experience in using pneumatic tools and appliances, when such men as these have adopted Dallett tools and give them their heartiest indorsement, you may rest assured there is some good reason for it.

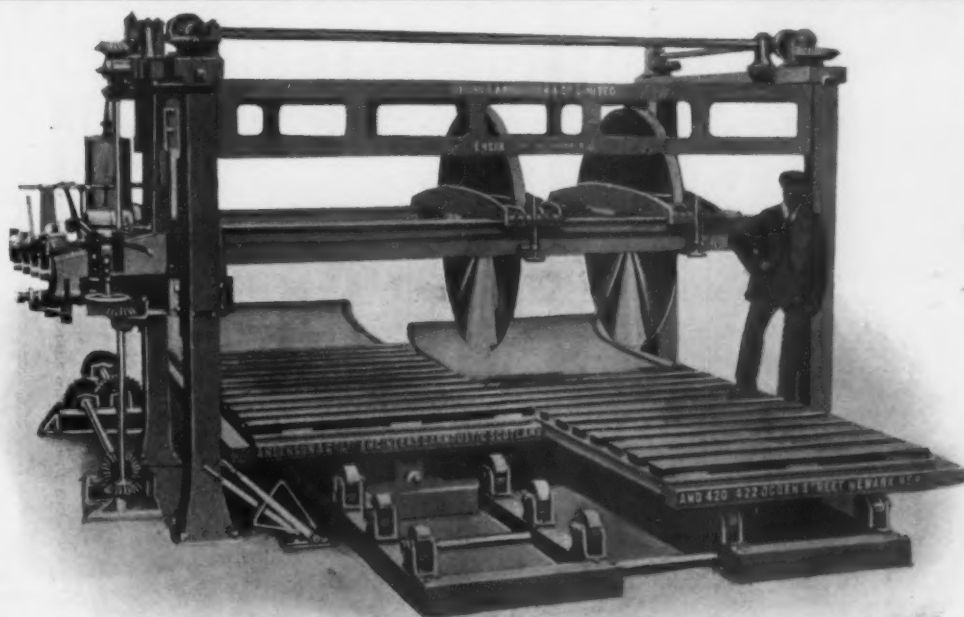
It is because they have recognized that Dallett products are so far in the lead that it is poor business judgment to use inferior tools and machines, no matter at what price they are offered.

It is just as necessary in the small plant to have efficient economical tools and machines as it is in the large ones, and you will serve your own best interests by taking the matter up with us before purchasing elsewhere.

**THOS. H. DALLETT, 23rd and York Sts., Philadelphia, Pa.**

New England Agents: **PITKIN SUPPLY CO., 259 Atlantic Avenue, BOSTON, MASS.**

## George Anderson & Co., (1905) Ltd. *Engineers and Ironfounders,* **NEWARK, N. J.**



Rising and Falling  
Diamond Saw,  
having Two Saws  
and Two Tables,  
100 inches  
Diameter.

The above is an illustration of our latest pattern Diamond Saw designed to meet the requirements of Stone Workers having a lot of checking to do. It also enables blocks of double the height to be dealt with. The whole of the movements are automatic, thus no time is lost in adjusting the blades. This is the largest Diamond Saw in the world.

Tell 'em you saw it in **ROCK PRODUCTS.**

# J. K. PIRIE

Proprietor of the Quarry formerly known as

**THE WELLS, LAMSON & CO., DARK QUARRY, Graniteville, Vt.**

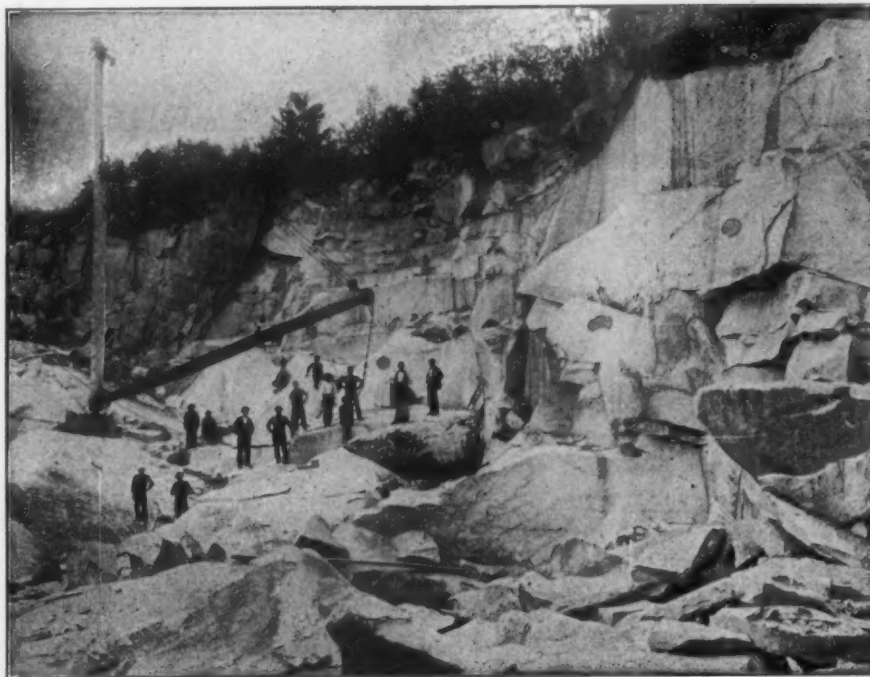
I have been in the company known as Wells, Lamson & Co. for 21 years and had the personal supervision of this quarry during that period.



Rough stock furnished to the limit of transportation

Stock squared and polished for the trade.

Only five quarries in Barre producing dark granite and mine is second to none.



Among the important contracts for which the Granite was supplied from my quarry, are the following:

Broom County Soldiers and Sailors Monument, erected at Binghamton, N. Y.

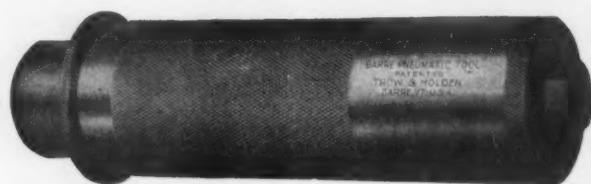
Soldiers and Sailors Monument, erected at Kokomo, Ind.

Soldiers Monument, at Wellsboro, Pa.

Polished Columns and Carved Capitals for Mausoleum erected by John L. Flood at San Francisco, Cal.

Monument erected to Hon. A. B. Martin, at Lynn, Mass. One of the finest private monuments in New England.

*Barre Pneumatic Tools*  
FOR GRANITE-MARBLE AND STONE



Made in four sizes to meet all requirements for carving, lettering, tracing and finishing any kind of stone. Your plant is not up-to-date without them.

MANUFACTURED BY

**TROW & HOLDEN**

BARRE, VT.

It combines correct practice with the latest developed knowledge of the principles of Air Compression

**THE FRANKLIN**

**Air Compressors**

MANUFACTURED BY

**Chicago Pneumatic Tool Co.**

CHICAGO-NEW YORK

Tell 'em you saw it in ROCK PRODUCTS.



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Lynn, Mass.  
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Co.





# Diamond Saws

Single and Double Platen of Improved Designs.

Belt or Motor Driven.

All up-to-date Features.

Send us your Inquiries.

**F. R. PATCH MANUFACTURING CO.**

Specialists in Stone Working Machinery

Rutland, - - - - Vermont

## NEW ALBANY STONE-WORKING MACHINERY.

### OUR SPECIALTIES

Stone Planers,	Screw Feed Gangs,
Wardwell Channelers.	Power Hoists,
Steam and Electric	Derrick Irons,
Traveling Cranes,	Wire Rip Saws,
Derrick Turners, Etc.	

Circular Matter Furnished and Prices Quoted on Application.

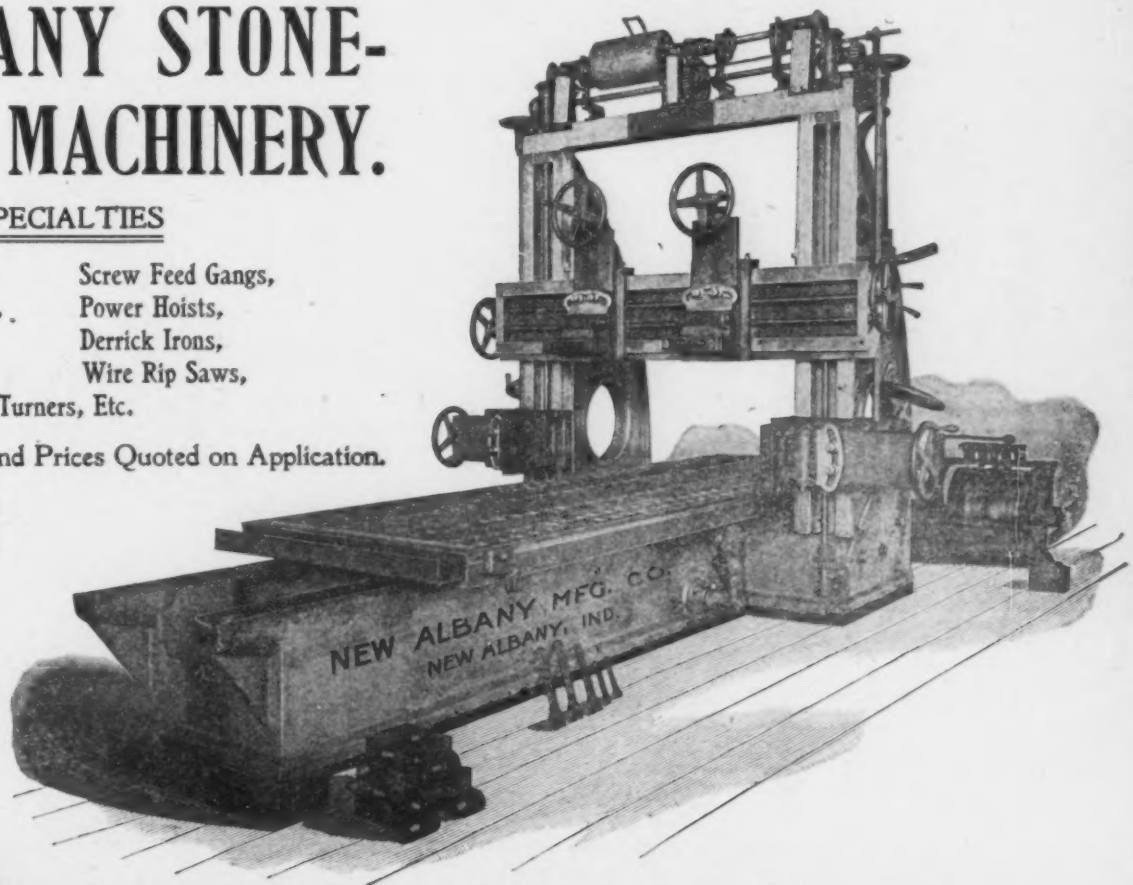
Mills Erected Complete ❧

Ready to Run ❧ ❧ ❧

THE  
NEW ALBANY  
MFG. CO.

P. O. BOX 423,

NEW ALBANY, IND.

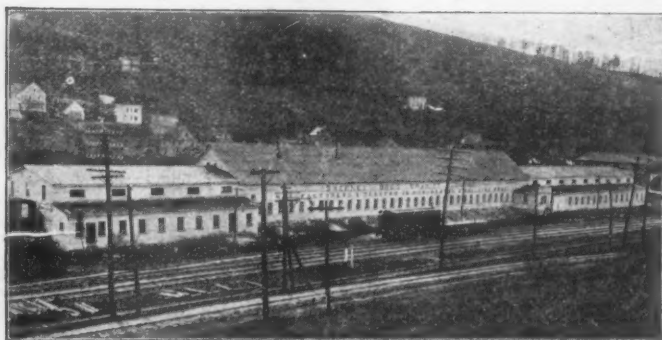


OUR 12 FT. X 4 FT. SINGLE PLATEN STONE PLANER. We Make Them in Any Size.

Tell 'em you saw it in ROCK PRODUCTS.

# Sweeney Brothers Granite Co.

MONTPELIER, VERMONT



Manufacturers and Dealers in Monumental Work from all kinds of American and Foreign Granites.

## BARRE GRANITE

A SPECIALTY.

GET OUR PRICES ON YOUR WORK

It will be our endeavor during this year to reach all the dealers in Granites in the United States, but do not wait for us to knock at your door. Send your sketches to us together with as many of your orders as possible. Address your communications to

SWEENEY BROTHERS GRANITE CO., Montpelier, Vt.

Established 1869.

(Paid-up Capital \$150,000.00)

Incorporated 1890.

## Schneider Granite Company,

Producers of

### Missouri Red Granite for BUILDING WORK

Monumental Work, Paving, Flagging, Curbing, Polishing and Crushed Granite.

Quarries: Graniteville, Iron County, Mo.

General Office: Pullerton Building, St. Louis, Mo.

Address all communications to General Office.

CUSTOM HOUSES; St. Louis, Mo., Cincinnati, Ohio, Memphis, Tenn.

STATE HOUSE, Springfield, Ill.

TRACTION BUILDING, Cincinnati, Ohio.

New Washington University Buildings, St. Louis,

Columns in Flood Building, San Francisco, Cal.

and the ST. LOUIS new CITY HALL

erected with our granite.

ESTIMATES FURNISHED FOR ALL KINDS OF WORK.

CONSOLIDATED GRANITE CO., Proprietors.

## NORTH CAROLINA BLUE PEARL GRANITE

VERY DARK BLUE—Compact—Uniform Color and Texture. Shows no scale. Positively will not corrode.

LETTERING AND HAMMERED WORK shows GRAY, making a contrast unequalled.

FULL MODERN EQUIPMENT for Squaring, Polishing and Finishing. SPECIAL FREIGHT RATES in effect to all sections of the United States.

WRITE FOR CATALOGUE AND SAMPLE. Estimates promptly furnished on special designs.

## Consolidated Granite Co., Winston-Salem, N. C.

(SUCCESSORS TO C. A. M'GALLIARD & SON)

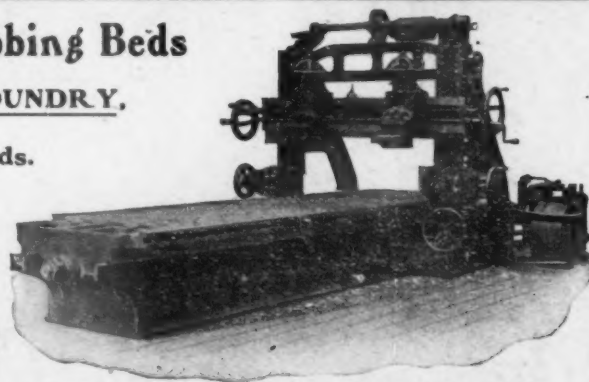


### Stone Planers and Rubbing Beds

BUILT BY THE  
BIRMINGHAM IRON FOUNDRY,  
DERBY, CONN.

Regular Planers with Four Heads.  
Open Side Planers,  
Twin Planers,  
Headers and Groovers.

The Swing Upright can be let down, thus making it an open side planer for wide stone.



AUGUST JOHNSTON,

Bowling Green Building,

SELLING AGENT.

11 Broadway, NEW YORK, N. Y.

Tell 'em you saw it in ROCK PRODUCTS.